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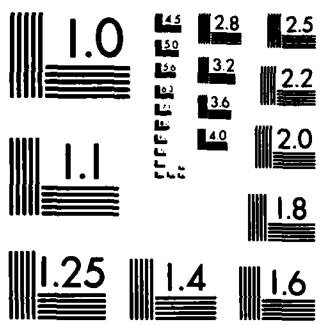

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ANALYSIS AND INTERPRETATION OF CURRENT MEASUREMENTS FROM THE BEAUFORT SEA

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16. Abstract

In order to gain a better understanding of pack ice motion on the Beaufort Sea continental shelf, the U.S. Coast Guard and the Institute of Ocean Sciences, Patricia Bay, Canada, undertook a joint program to measure currents, ice motion and the atmospheric pressure field during March-August 1981. An array of four current meter moorings was deployed in the American Beaufort Sea at 146°W longitude across the continental shelf break while in the Canadian sector three moorings were deployed along the 100 m isobath. A total of 13 current meters were deployed in March and April, 12 of which were recovered in August. CTD measurements were made during the deployments through the sea ice with winch and data logger mounted in a de Havilland Twin Otter.

The present view of ocean circulation in the Beaufort Sea is based principally upon dynamic heights and computed baroclinic, geostrophic currents. These computations show a vertical shear westward toward the surface. If a reference level of no motion is assumed at the bottom (or in fact any depth below 100 m), the results of these computations are in qualitative agreement with the observed westward ice drift in the southern Beaufort Sea. Recent measurements by Aagaard (in press) showed, however, that the flow on the continental shelf is eastward. The cross-slope array deployed by the USCG in 1981 was designed to locate the region where the eastward continental shelf flow vanishes and is replaced by the westward flow of the Beaufort gyre. The cross-slope array of instruments in fact demonstrated that there is no mean westward flow below 40 m depth and the Beaufort gyre is confined to the surface layers in this region. The deeper layers move eastward in the southern Beaufort and the possibility exists that all the deeper waters of the Beaufort gyre circulate in an anti-clockwise sense.

Coherence spectra among various current meter records and meteorological forcings were computed. The coherence computations between a current meter record from the shelf break and a) the direct wind stress, b) the longshore gradient of the wind stress, and c) the curl of the wind stress, all show a high degree of coherence (above the 95% significant level), but none of these atmospheric driving forces appears to dominate. Large events in the current records in July appear uncorrelated with atmospheric processes.

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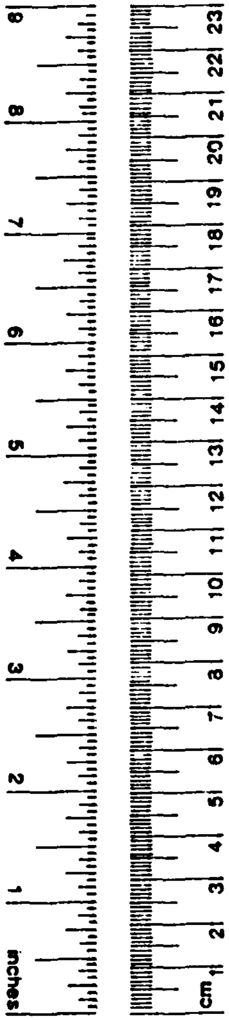
METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures

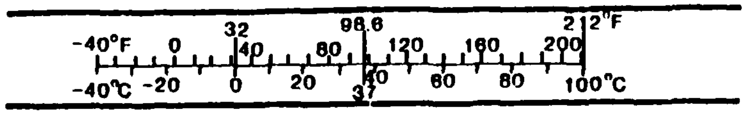
Symbol	When You Know	Multiply By	To Find	Symbol
		LENGTH		
in	inches	*2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km
		AREA		
in^2	square inches	6.5	square centimeters	cm^2
ft^2	square feet	0.09	square meters	m^2
yd^2	square yards	0.8	square meters	m^2
mi^2	square miles	2.6	square kilometers	km^2
	acres	0.4	hectares	ha
		MASS (WEIGHT)		
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t
		VOLUME		
tsp	teaspoons	5	milliliters	ml
tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft^3	cubic feet	0.03	cubic meters	m^3
yd^3	cubic yards	0.76	cubic meters	m^3
		TEMPERATURE (EXACT)		
°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

*1 in = 2.54 (exactly). For other exact conversions and more detailed tables, see NBS Misc. Publ. 286, Units of Weights and Measures. Price $2.25. SD Catalog No. C13.10.286.



Approximate Conversions from Metric Measures

Symbol	When You Know	Multiply By	To Find	Symbol
		LENGTH		
mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi
		AREA		
cm^2	square centimeters	0.16	square inches	in^2
m^2	square meters	1.2	square yards	yd^2
km^2	square kilometers	0.4	square miles	mi^2
ha	hectares (10,000 m^2)	2.5	acres	
		MASS (WEIGHT)		
g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	tonnes (1000 kg)	1.1	short tons	
		VOLUME		
ml	milliliters	0.03	fluid ounces	fl oz
l	liters	0.125	cups	c
l	liters	2.1	pints	pt
l	liters	1.06	quarts	qt
l	liters	0.26	gallons	gal
m^3	cubic meters	35	cubic feet	ft^3
m^3	cubic meters	1.3	cubic yards	yd^3
		TEMPERATURE (EXACT)		
°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature	°F



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1. SUMMARY

In order to gain a better understanding of pack ice motion on the Beaufort Sea continental shelf, the U.S. Coast Guard and the Institute of Ocean Sciences, Patricia Bay, Canada, undertook a joint program to measure currents, ice motion and the atmospheric pressure field during March-August 1981. An array of four current meter moorings was deployed in the American Beaufort Sea at 146° W longitude across the continental shelf break while in the Canadian sector three moorings were deployed along the 100 m isobath. A total of 13 current meters were deployed in March and April, 12 of which were recovered in August. CTD measurements were made during the deployments through the sea ice with winch and data logger mounted in a de Havilland Twin Otter.

The locations of the current meter moorings, the CTD stations as well as the initial positions of drifting buoys equipped with barometric pressure sensors are shown in Figure 1.

The present view of ocean circulation in the Beaufort Sea is based, principally, upon dynamic heights and computed baroclinic, geostrophic currents. These computations show a vertical shear westward toward the surface. If a reference level of no motion is assumed at the bottom (or in fact any depth below 100 m), the results of these computations are in qualitative agreement with the observed westward ice drift in the southern Beaufort Sea. Recent measurements by Aagaard (in press) showed, however, that the flow on the continental shelf is eastward. The cross-slope array deployed by the USCG in 1981 was designed to locate the region where the eastward continental shelf flow vanishes and is replaced by the westward flow of the Beaufort gyre. The cross-slope array of instruments in fact demonstrated that there is no mean westward flow below 40 m depth and the Beaufort gyre is confined to the surface layers in this region. The deeper layers move eastward in the southern Beaufort and the possibility exists that all the deeper waters of the Beaufort gyre circulate in an anti-clockwise sense.

Coherence spectra among various current meter records and meteorological forcings were computed. The coherence computations between a current meter record from the shelf break and a) the direct wind stress, b) the longshore gradient of the wind stress, and c) the curl of the wind stress, all show a high degree of coherence (above the 95% significance level), but none of these atmospheric driving forces appears to dominate. Large events in the current records in July appear uncorrelated with atmospheric processes.

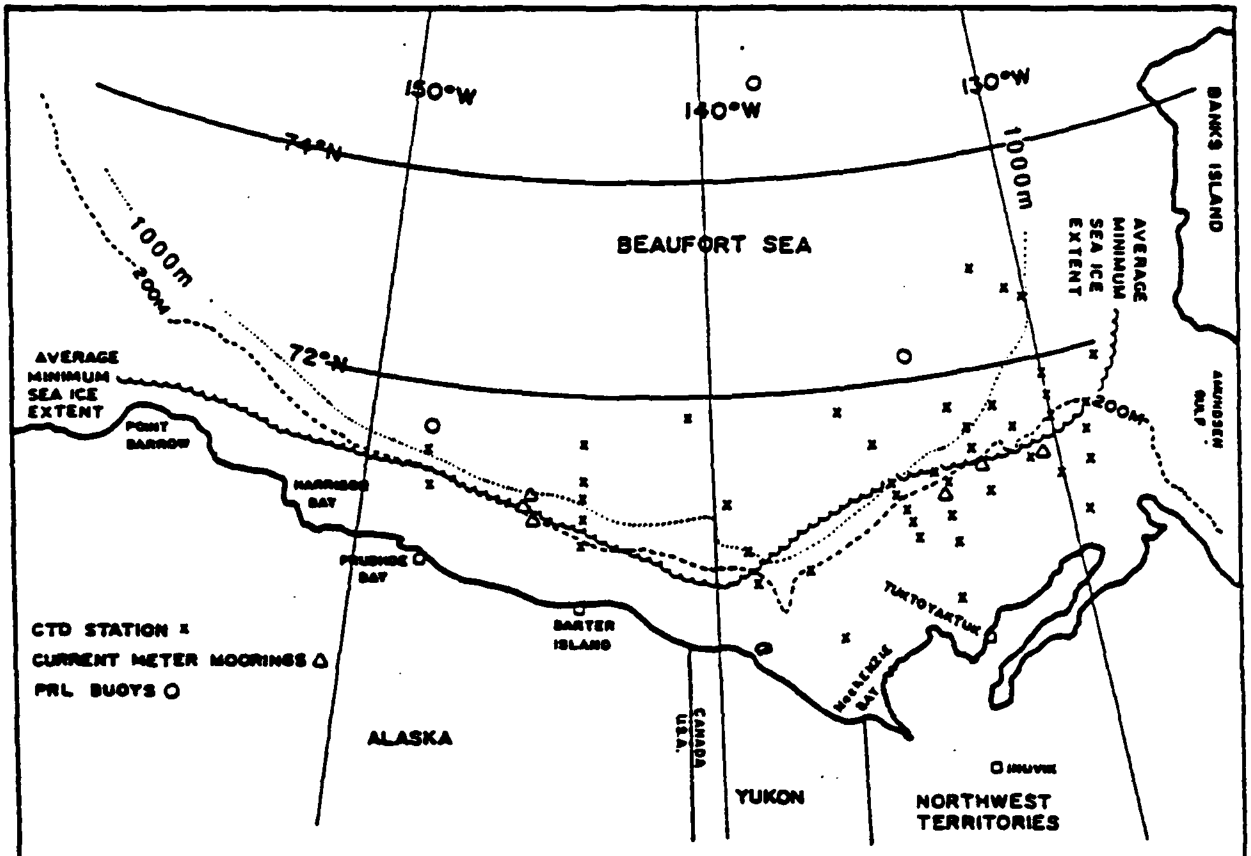


FIGURE 1. Chart Showing Approximate Locations of Current Meter Moorings, CTD Stations and Initial Deployment Positions of PRL Buoys in APRIL 1981.

2. INSTRUMENTATION

The moorings in the U.S. sector were equipped with AMF vector averaging current meters. These meters record case orientation and vane orientation for every four rotor revolutions. At the end of the 15 minute sampling interval the average accumulated North and East vectors are stored on magnetic tape. At the same time a temperature measurement is made.

The Canadian moorings were equipped with Aanderaa current meters which record one direction and the number of rotor revolutions of each sampling interval. The Aanderaa instruments also recorded temperature and conductivity.

CTD (Conductivity-Temperature-Depth) measurements were made with an Arctic-type Guildline CTD (accuracy .005^{o} C, .01 $^{o}/_{oo}$).

Also in the course of the field work, three Polar Research Labs satellite tracked drifting buoys were deployed. These were equipped with thermistors and barometric pressure sensors and constituted part of the POLEX grid of buoys deployed over most of the Arctic Ocean (Thorndike, et al., 1982).

All operations in March and April 1981 were conducted with a chartered Canadian ski-equipped Twin Otter (Borek Air; Don Boe, pilot). The skill of the pilot permitted landing on the mobile pack ice within 1 km of all designated locations. Current meters were deployed by melting a 1 m diameter ring through the ice, removing the ice plug and lowering the moorings, anchor first, to the bottom. CTD measurements were made through a hole augered in the ice utilizing a winch mounted inside the aircraft. The PRL buoys, although designed for deployment from the air, were placed on the ice after landing at the pre-chosen sites.

3. CTD MEASUREMENTS AND DYNAMIC HEIGHT TOPOGRAPHY

Sixty-one CTD casts were performed in late March and April in the southern Beaufort Sea. The data are presented graphically for each cast in Appendix 1. The profiles all demonstrate the well-known characteristics of the Beaufort Sea. Figure 2 is a typical profile of salinity, temperature and sigma-t from the region. Density varies with salinity but little with temperature for water around 0° C, so that the sigma-t profiles bear a close resemblance to salinity profiles. The stratification in the Beaufort Sea is confined to the upper 200 m and at many locations 50% of the stratification is in the upper 50 m of the water column. The temperature profiles show an under-ice temperature at the *in situ* freezing point with a slight subsurface maximum at 50 to 60 m depth variously ascribed to warmer water advected through the Bering Strait and relict warm water from local heating in summer. The major feature of the temperature profiles is, of course, the broad maximum in temperature centred at 500 m depth. This is the signature of the Atlantic water which enters the Arctic between Greenland and Svalbard. In the Beaufort Sea, this water mass has nearly completed its (probably) anti-clockwise circuit of the Arctic Ocean.

Dynamic height topographies are plotted between six different pressure surfaces in Figures 3 through 8. These were drawn after dynamic heights were computed at each station from density measurements.

It should be remembered that dynamic height computations provide the magnitude of the geostrophic *shear* only. In order to compute absolute currents a reference level is necessary. As will be seen later, the mean currents at depth are eastward due to a strong barotropic component of flow and it is only the upper 40 m or less that actually move westward.

The 0/300 decibar chart (Figure 6) shows a westward geostrophic current in the upper water column of .07 m s^{-1} directed westward toward the surface. All the charts exhibit the same sense of shear with the exception of the 300/1000 decibar chart where the shear is extremely weakly indicated in the opposite direction.

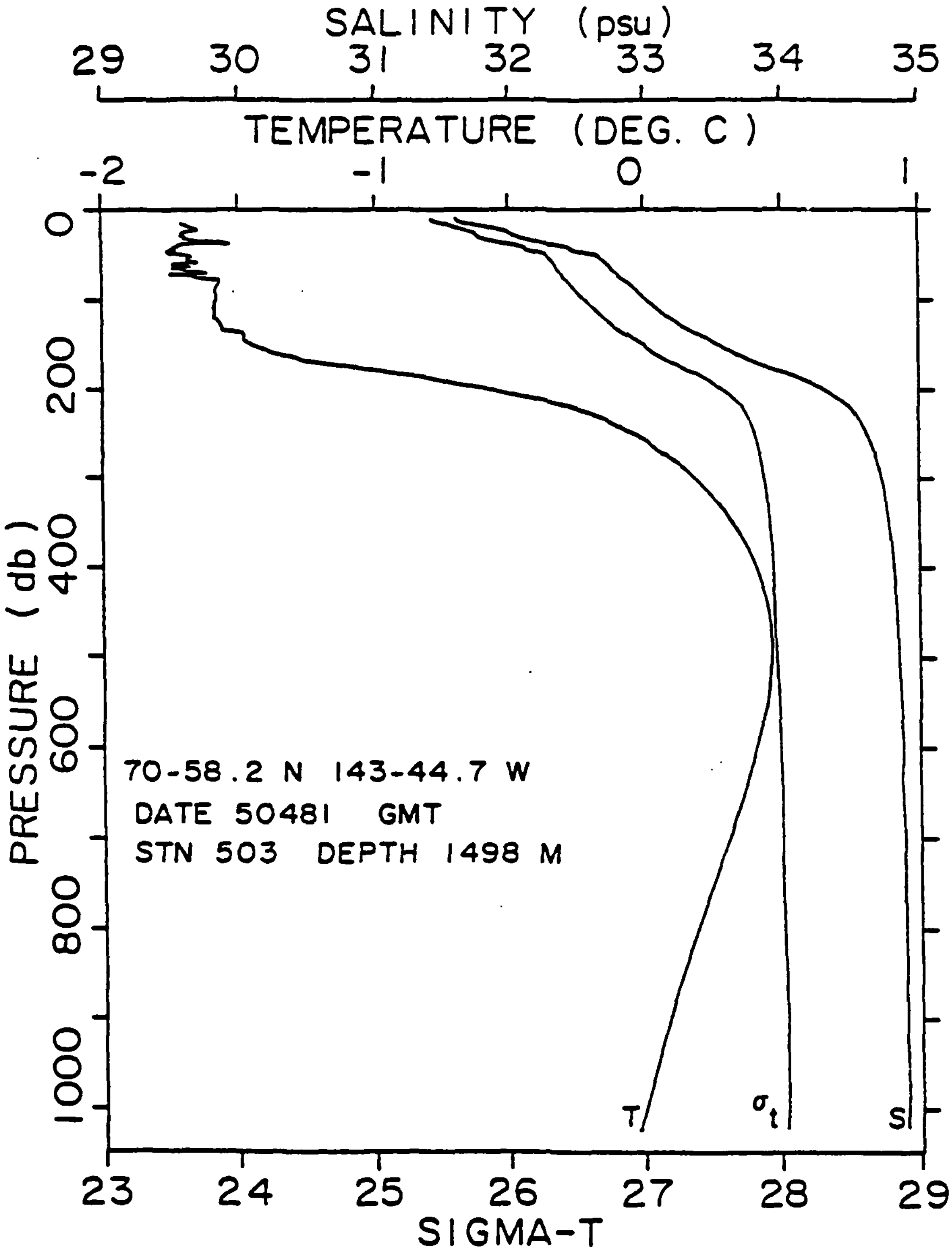


FIGURE 2. Typical Profile of Temperature, Salinity and Sigma-t from the Beaufort Sea Continental Slope, 5 April 1981. Salinity in Practical Salinity Units of Perkin and Lewis, 1980. Pressure in decibars.

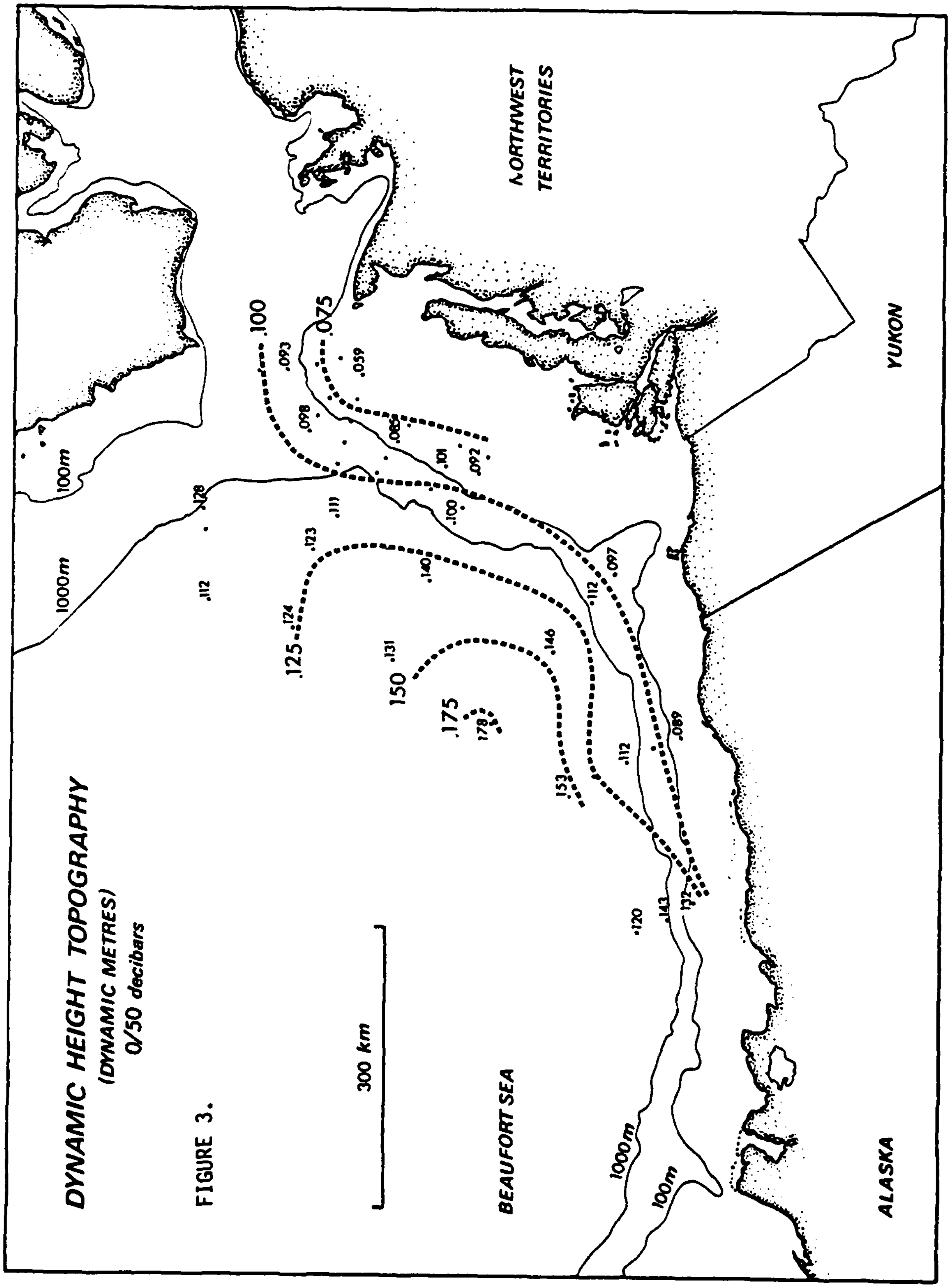


FIGURE 3. DYNAMIC HEIGHT TOPOGRAPHY

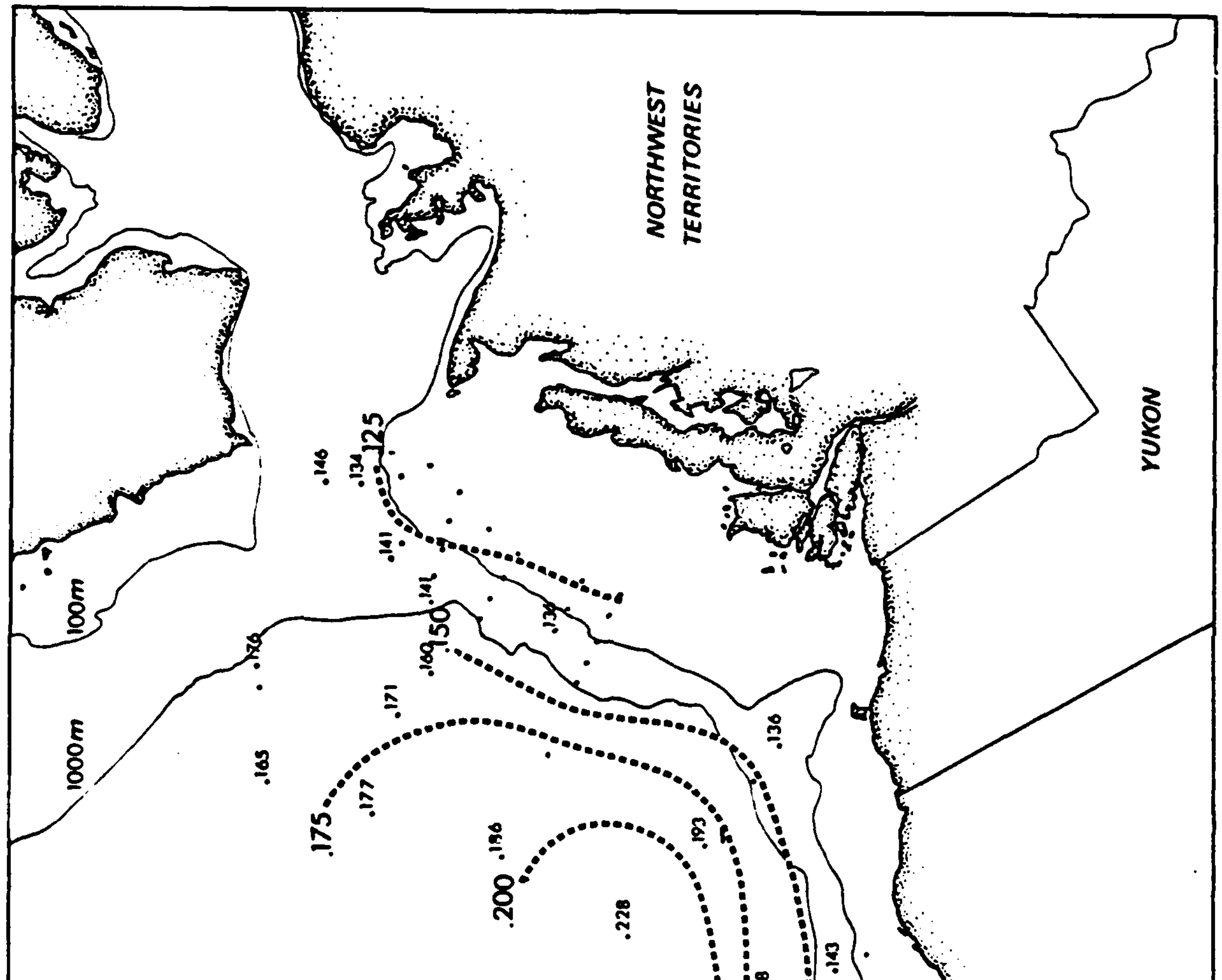


FIGURE 4.

DYNAMIC HEIGHT TOPOGRAPHY
(DYNAMIC METRES)
0/75 decibars

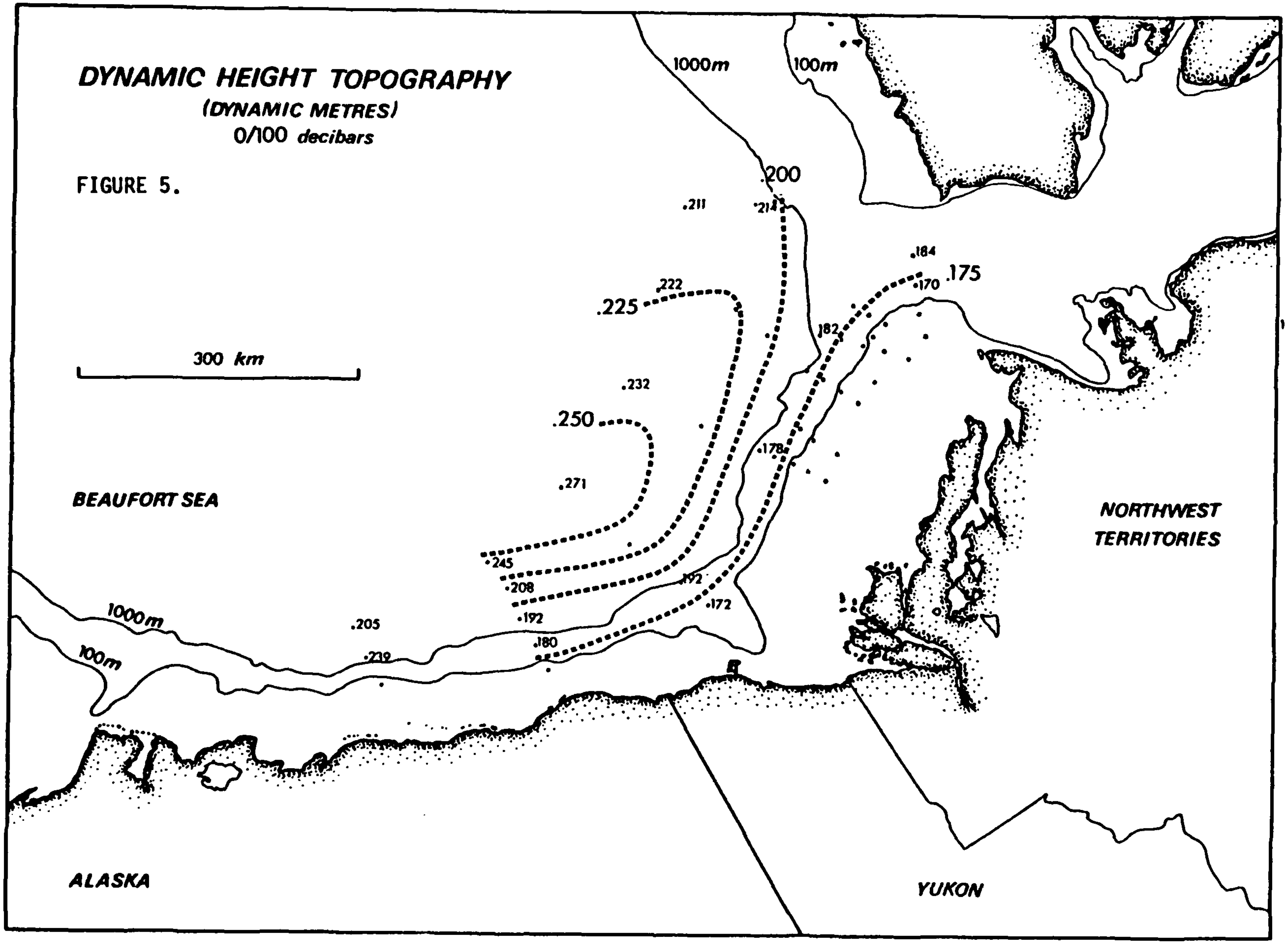


FIGURE 5. DYNAMIC HEIGHT TOPOGRAPHY (DYNAMIC METRES) 0/100 decibars

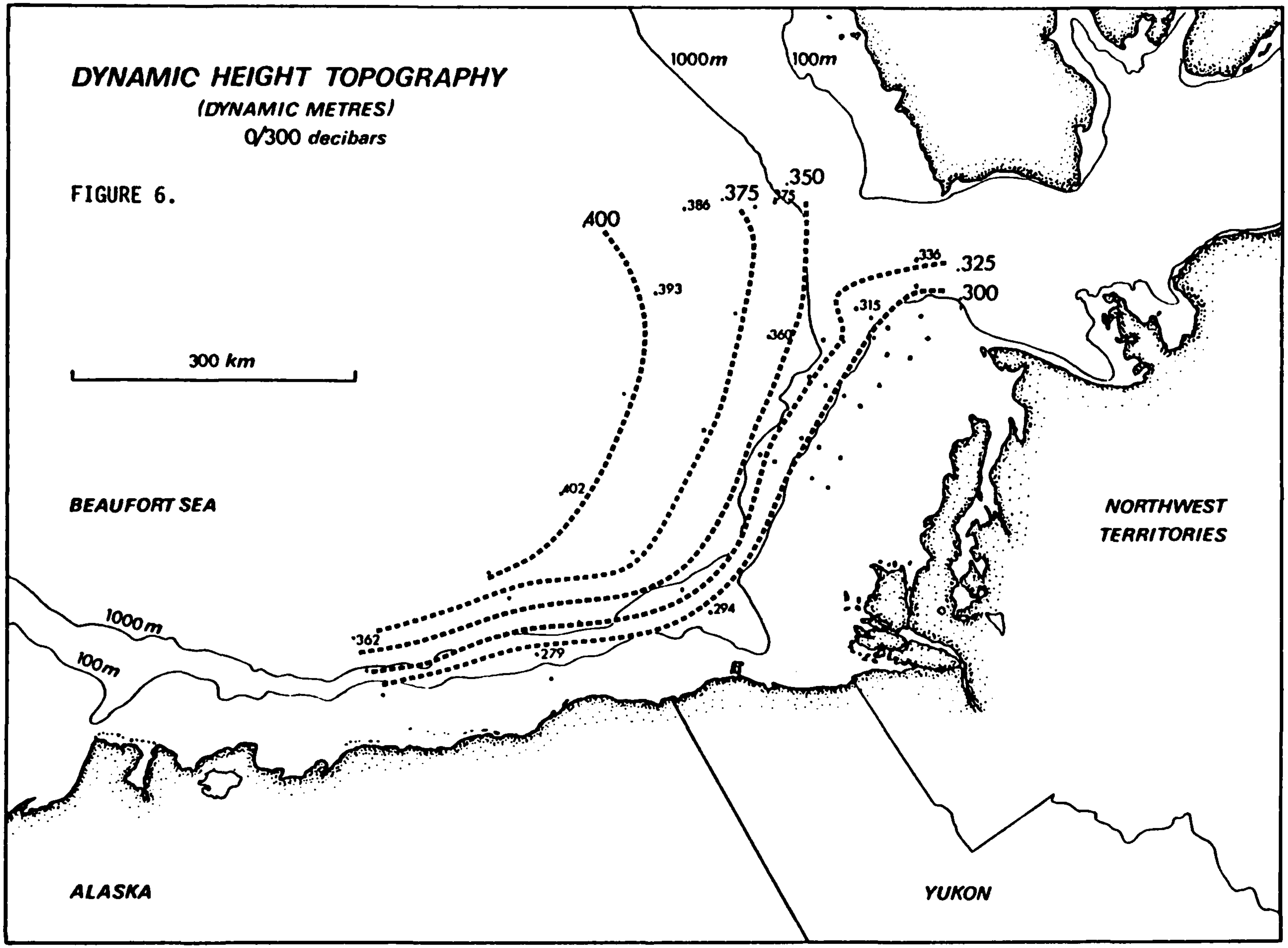


FIGURE 6.
DYNAMIC HEIGHT TOPOGRAPHY
(DYNAMIC METRES)
0/300 decibars

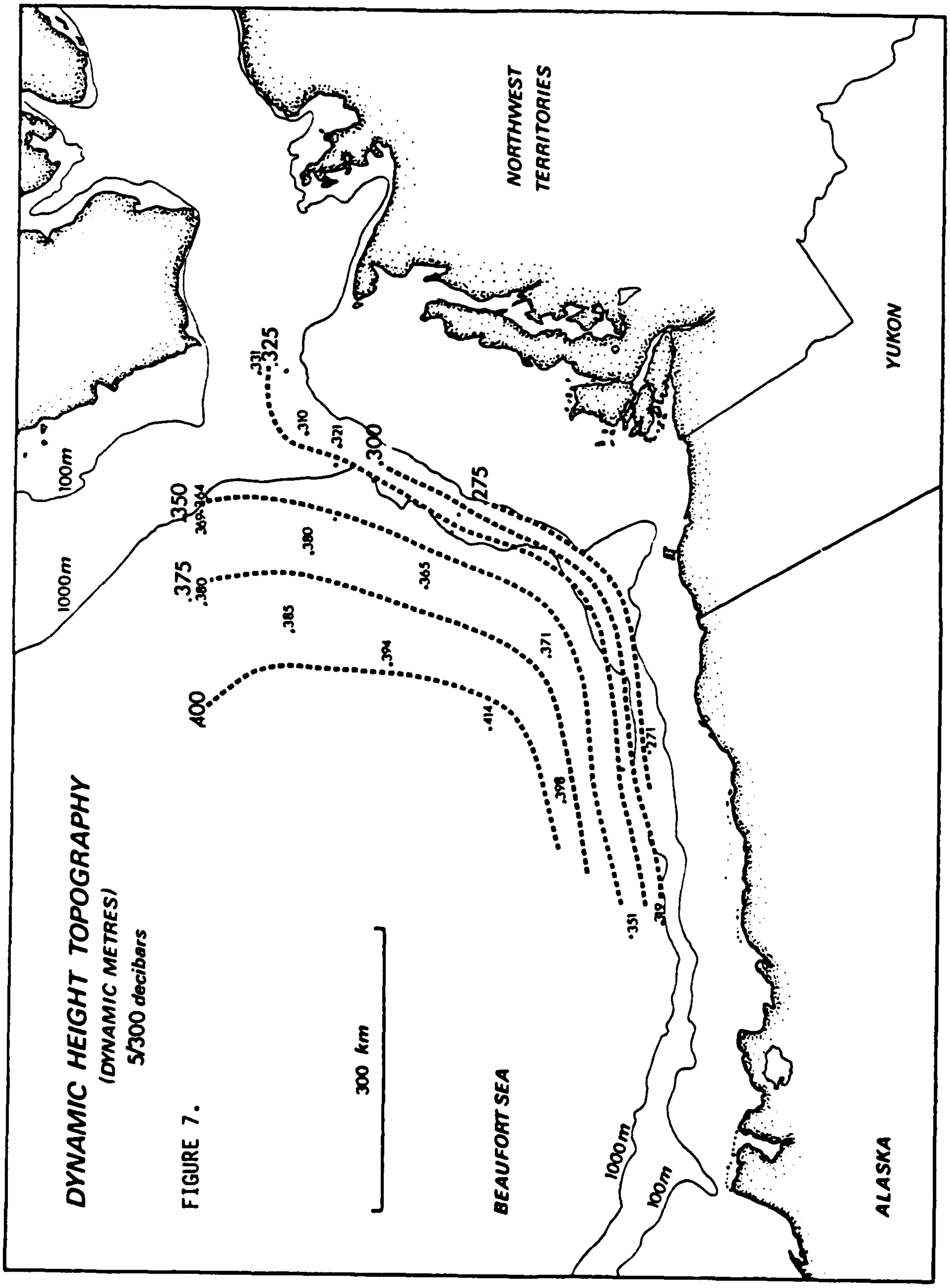
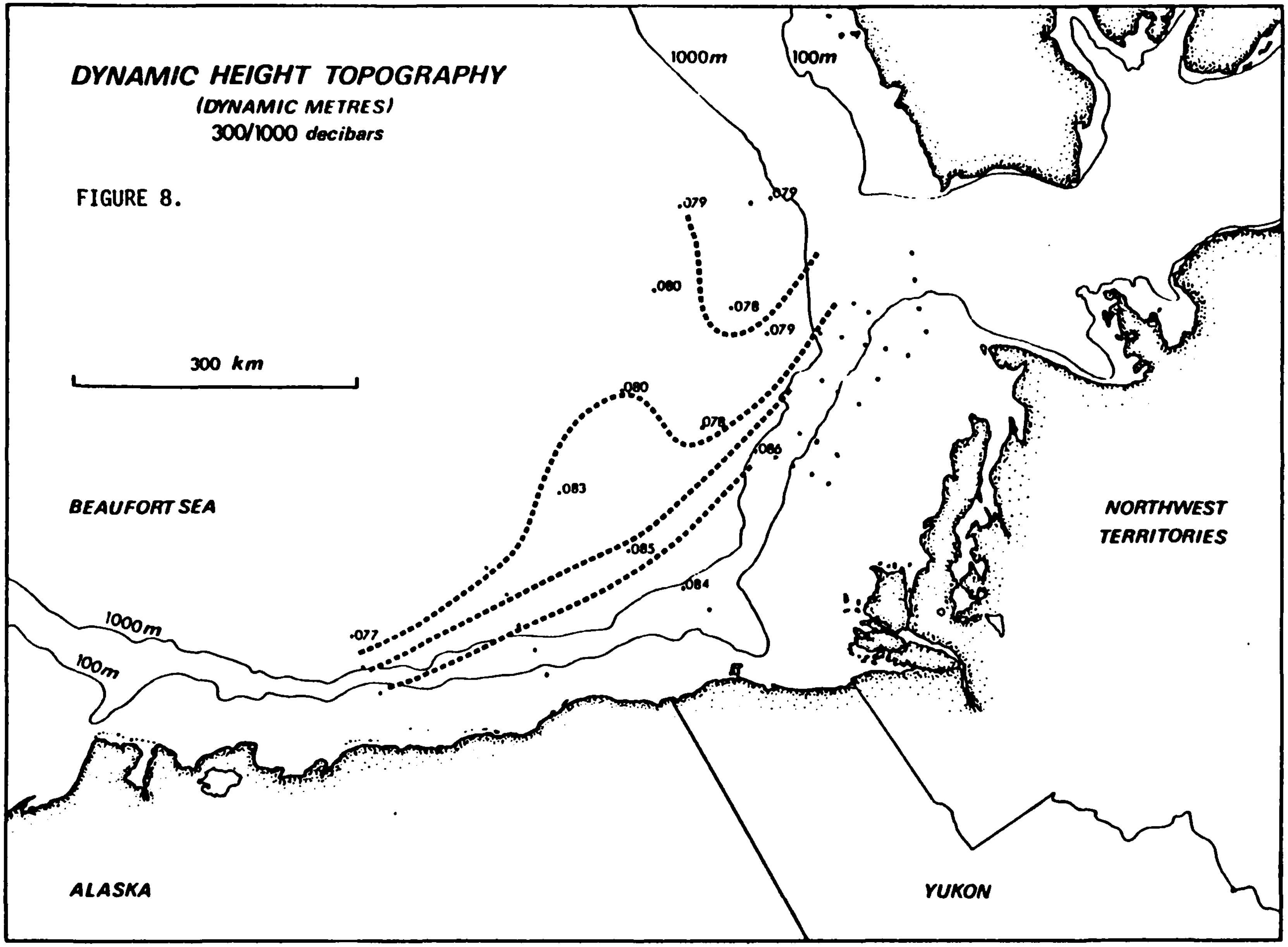


FIGURE 7.

DYNAMIC HEIGHT TOPOGRAPHY
(DYNAMIC METRES)
5/300 decibars



DYNAMIC HEIGHT TOPOGRAPHY
(DYNAMIC METRES)
300/1000 decibars

FIGURE 8.

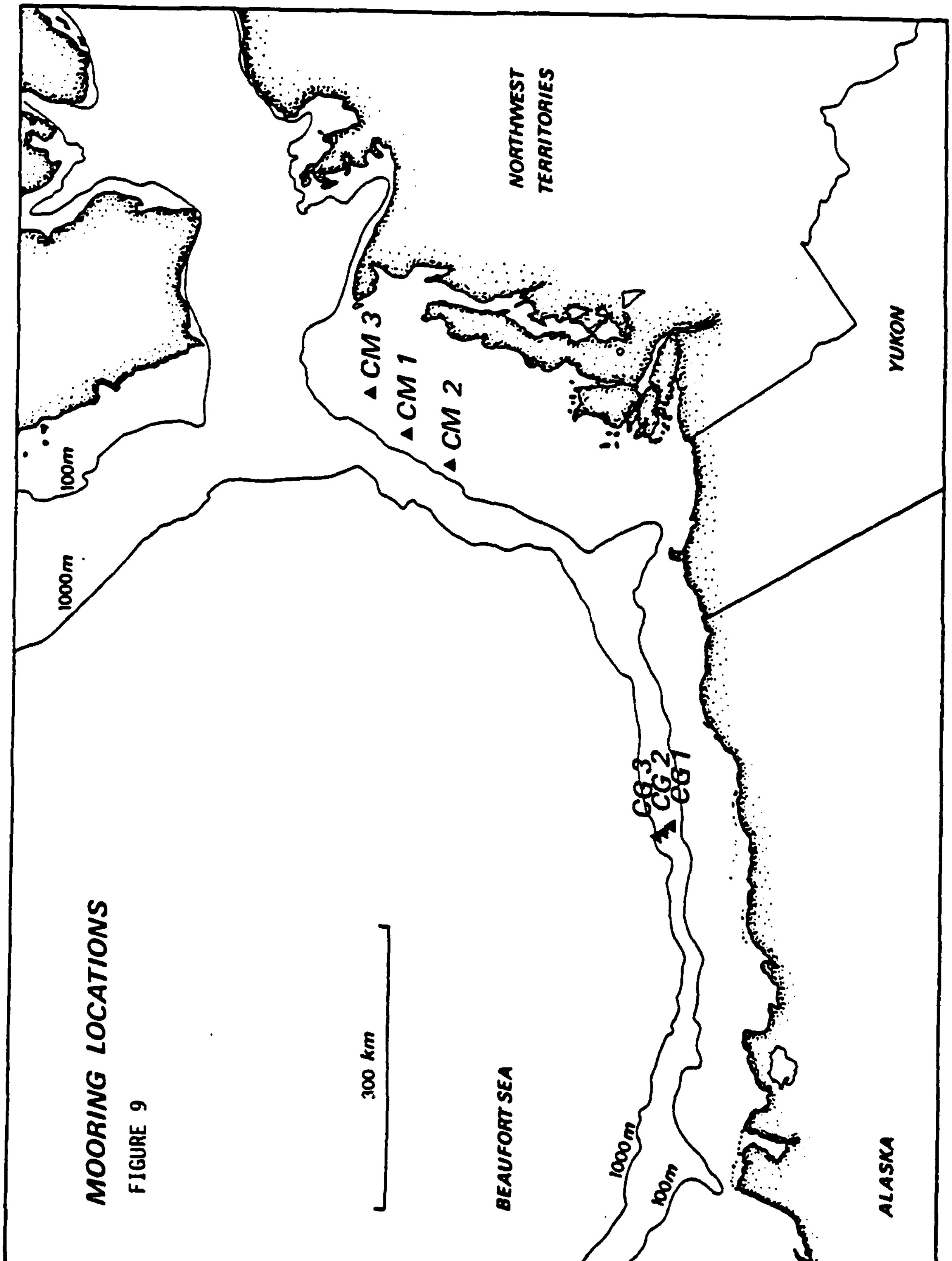
4. CURRENT METER MEASUREMENTS

Of the 13 current meters deployed, on seven moorings, 12 meters on six moorings were recovered. The location of the mooring sites is shown in Figure 9 and particulars of each current meter record are tabulated in Table 1.

The current meter moorings were all deployed through the ice during March and April 1981. The recovery of the western moorings in the American sector was performed from the USCGC POLAR SEA, while the Canadian moorings were recovered by the CHS HUDSON.

At each of the current meters the mean velocity was found to be eastward. The measured mean vertical shear is in agreement with the computed geostrophic shear so that the deep instruments showed a stronger mean eastward flow than the shallow instruments. It would appear, therefore, that the westward flow associated with the Beaufort gyre is concentrated in the upper 40 m of the water column in the southern Beaufort Sea. The possibility is thus raised that the deeper waters of the entire Beaufort Sea circulate in an anti-clockwise manner below the surface water which circulates clockwise. This speculation leads one to envisage, on a large scale, a spiral estuarine circulation in the Arctic Ocean: dense Atlantic waters sinking west of Svalbard flowing to the east, north of Severnaya Zemlya then along the Siberian shelf break and into the Beaufort Sea, while the surface waters follow the opposite path and exit the Arctic east of Greenland. (See Figure 10 for place names and conjectural Atlantic Water flow.)

Two other observations of a general nature are worth noting here. First, the currents measured in the Canadian Beaufort exhibit clear tidal fluctuations. They are indubitably tidal, and not inertial, since a fortnightly beating is apparent between the M_2 and S_2 tidal constituents (see time series plots Appendix 2). Second, there are extremely large events present in the records from the American sector. During July, speeds of over 40 cms^{-1} to the east were measured,



MOORING LOCATIONS

FIGURE 9

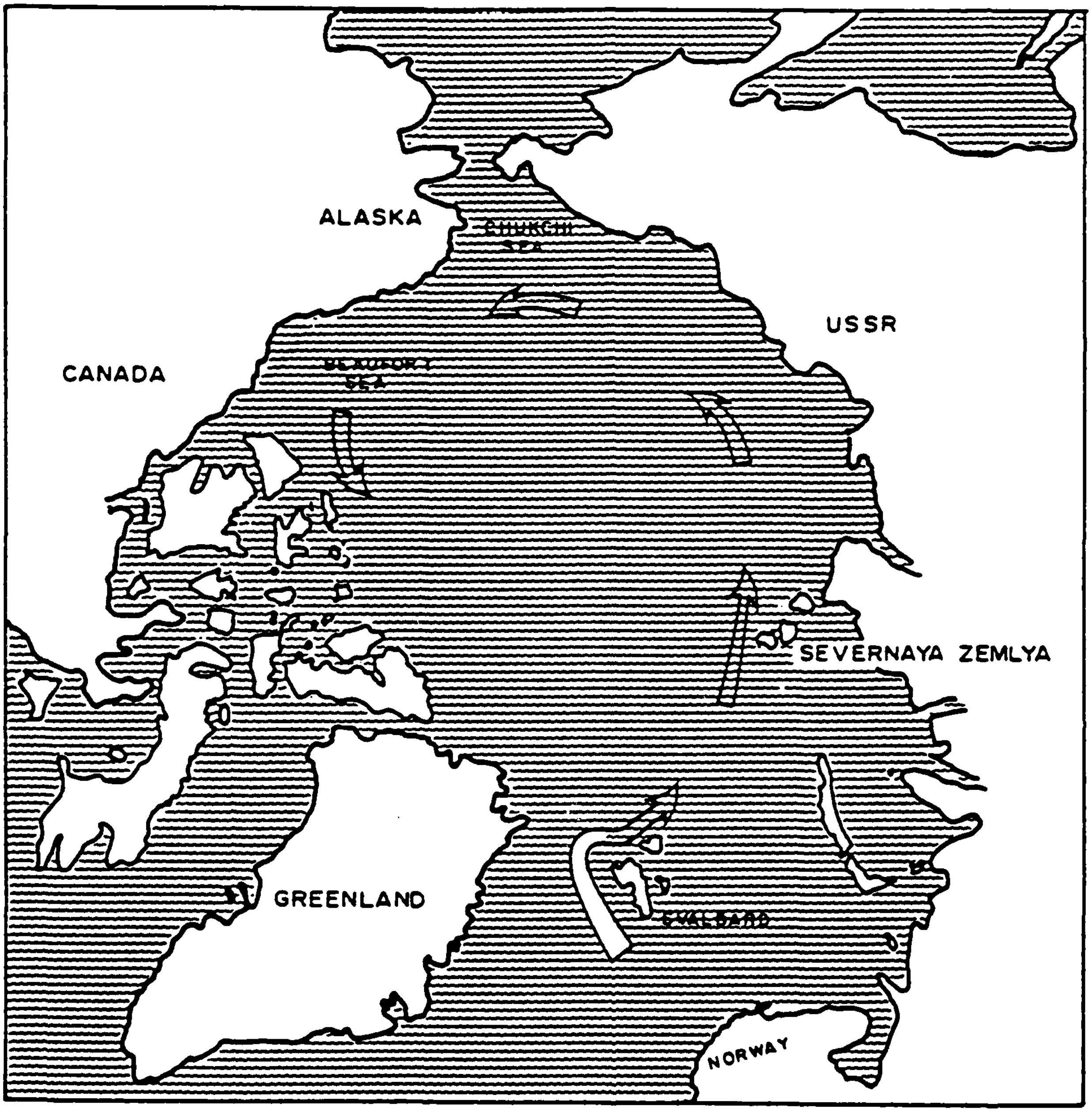


Fig. 10 The Arctic Ocean. Arrows indicate the conjectured sub-surface flow of Atlantic water.

TABLE 1. CURRENT METER AND MOORING PARTICULARS

Mooring	Water Depth (m)	Location	Deployment (GMT)	Recovery (GMT)	Meters	Instrument Depth (m)	Comments	Sampling Interval Minutes
CG1	188	70°53.0'N	0315	1900	CG11	40	AMF VACM	15
		145°55.3'W	9 APR 81	1 AUG 81	CG12	150	AMF VACM	15
CG2	368	70°56.4'N	0315	2300	CG21	40	AMF VACM	15
		146°00.6'W	10 APR 81	1 AUG 81	CG22	268	AMF VACM - Meter stopped recording 0230 3 Jun 81	15
CG3	840	70°57.8'N	0200	0300	CG31	40	AMF VACM - Compass failed - No direction information	15
		146°02.9'W	11 APR 81	2 AUG 81				
					CG32	268	AMF VACM	
CM1	99	71°11.3'N	2150	0010	2462	41	Aanderaa	30
		132°09.0'W	28 MAR 81	18 AUG 81	2470	94	Aanderaa	30
CM2	77	70°56.5'N	2220	2100	2466	39	Aanderaa	30
		133°33.0'W	25 MAR 81	17 AUG 81	3228	72	Aanderaa	30
CM3	62	71°23.2'N	2330	0340	2468	37	Aanderaa	30
		130°21.5'W	23 MAR 81	18 AUG 81	3223	57	Aanderaa	30

which were associated with reversals of flow over 20 cms^{-1} at current meter at 40 m depth at sites CG1 and CG2 and at 150 m depth at CG1. Speeds over 50 cm s^{-1} were also recorded in July at 40 m depth at site CG3.

In order to more closely scrutinize the current meter data, several data reduction techniques were employed. These are listed with their location in Table 2.

TABLE 2. DATA REDUCTION PRODUCTS AND THEIR LOCATIONS

Time series plots of longshore and offshore current components	All current meters	Appendix 2
25 hour low pass filtered time series plots of longshore and offshore current components	All current meters	Appendix 2
Stick plots of current meter records (25 hour low pass filtered)	USCG meters	Appendix 3
Time series plots of temperature	USCG meters	Appendix 4
Weekly histograms of offshore vs. longshore velocity components	USCG meters	Appendix 5
Histograms of temperature vs. longshore velocity component	USCG meters	Appendix 5
Histograms of direction vs. speed	USCG meters	Appendix 5
Percent occurrence of direction Percent occurrence of speed	USCG meters	Appendix 6
Progressive vector diagrams	USCG meters	Appendix 7
Tidal stream analyses	USCG meters	Appendix 8
Power spectra of offshore and longshore current components	USCG meters	Appendix 9
Time series plots of longshore and offshore components of velocities of drifting buoys 2577, 2578 and 2579	USCG PRL buoys	Appendix 10

5. BUOY DATA

In conjunction with the 1981 Arctic Ocean Buoy Program (Thorndike, *et al*. 1982), three Polar Research Labs satellite-tracked buoys with barometric pressure sensors were deployed in the southern Beaufort Sea. These packages were deployed on the pack ice and therefore provide ice motion information as well as *some* information on the pressure field over the Arctic Ocean. The daily mean positions of each of the Arctic Ocean buoys as well as the twice daily barometric pressures are given in Thorndike *et al*. (1982).

We have computed the velocities of buoys 2577, 2578 and 2579 (those deployed in the southern Beaufort Sea) and produced time series plots of their longshore and offshore velocity components during the period of current meter operation. These time series plots can be found in Appendix 10. The buoys move clockwise around the Beaufort gyre in a direction *opposite* to that of the currents below 40 m depth.

6. WINDS

The sea surface pressure fields produced by Thorndike, et al. (1982) were employed to calculate geostrophic winds over the Beaufort Sea. The surface wind stress was then computed from the geostrophic winds by assuming a 40% reduction in wind speed through the atmospheric Ekman layer, a 20° rotation to the left, a drag coefficient of 1.3 x 10^{-3} and an air density of 1.3 kg m^{-3}.

The wind stress can be expressed in terms of the 10 m wind velocity as:

$$\vec{\tau} = \rho_a C_D |\vec{V}| \vec{V}$$

where $\vec{\tau}$ is the wind stress, ρ_a the density of air, C_D the drag coefficient and $\vec{V}$ the 10 m wind velocity.

In order to examine the atmospheric driving forces for ice motion and the subsurface currents, the wind stresses were computed at the four points listed in Table 3 and shown in Figure 11.

TABLE 3. LOCATION OF POINTS WHERE WIND STRESS WAS COMPUTED

Point	Latitude	Longitude	Longshore Direction	
A	71°30' N	153° W	120° T	NE of Point Barrow
B	71°00' N	146° W	118° T	At longitude of USCG CMS
C	70°30' N	139° W	090° T	Herschel Canyon
D	70°01' N	165° W	042° T	Chukchi Sea

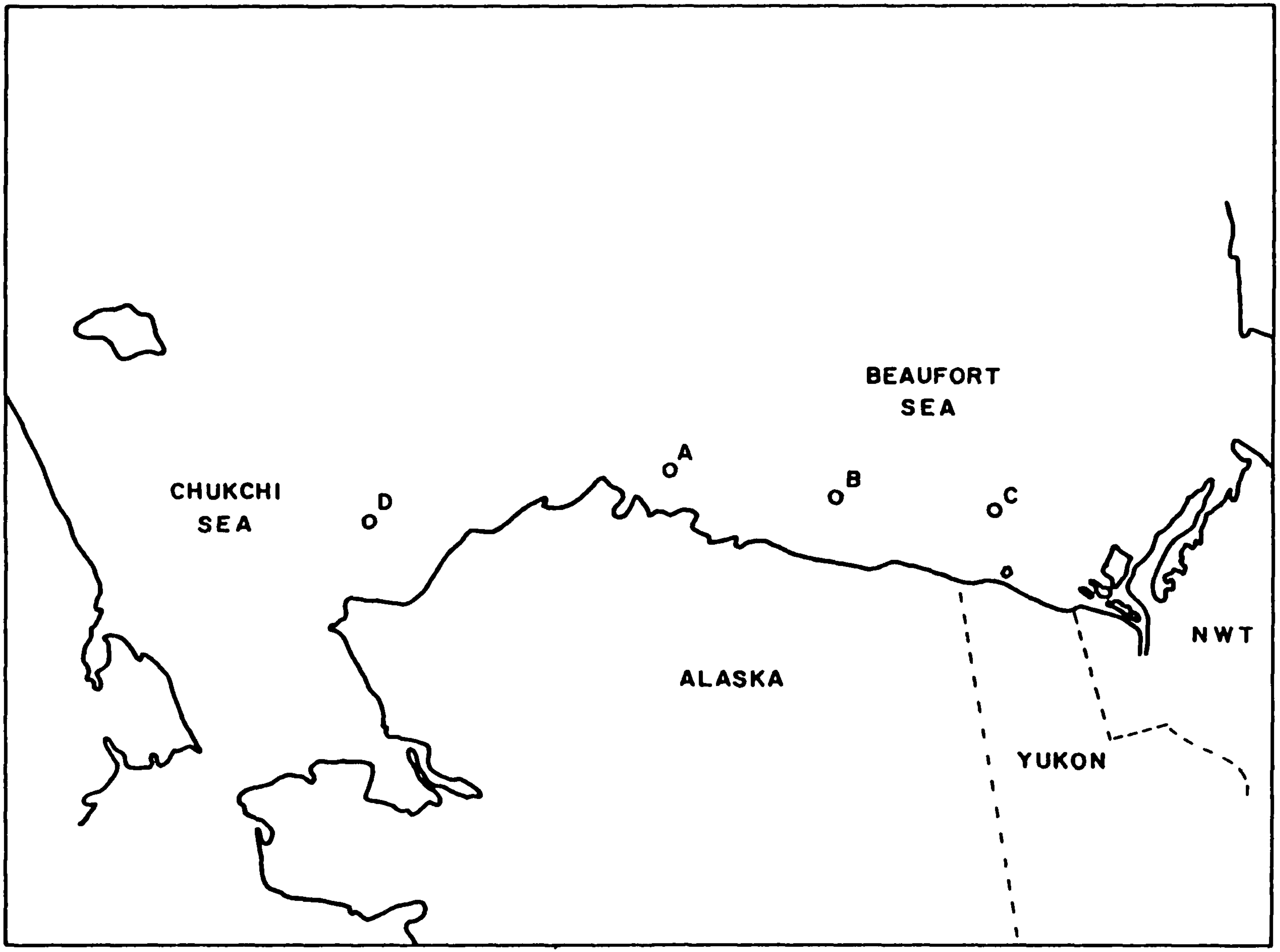


FIGURE 11. Location of Points Where Wind Stress was Computed.

The atmospheric pressures and air temperature at points A, B and C are shown in time series plots in Appendix 11.

Time series plots of geostrophic wind speed and direction at points A, B, C and D are presented in Appendix 12.

In order to provide a proper intercomparison between low-passed current records and the wind stress time series, the twice daily computed wind stresses were filtered with a 24 hour low pass filter of the same degree as the current records (Godin, 1972). The time series plots of the longshore and offshore components of the filtered wind stresses are shown in Appendix 13.

The motivation for this study was the determination of those atmospheric processes which drive ice drift and ocean currents. After a cursory examination of the data, it was hypothesized that the currents were driven by longshore gradients in the longshore wind stress. Previous investigators, however, have shown that differences in atmospheric pressure between two locations are well correlated with flows in this region (e.g., Mountain _et al_., 1976). In order to investigate these possibilities, time series plots of differences in atmospheric pressure and temperature between points were computed and all presented in Appendix 14. Differences in wind stress are shown in Appendix 15. For comparison purposes, time series plots of the curl of the wind stress at points B and D are presented in Appendix 16.

7. ANALYSIS

The data show geostrophic shear directed westward from the bottom to the top of the water column with mean currents at 40 m depth and below flowing eastward. The ice drift is to the west as is the prevailing wind. Large, nearly barotropic events are present in the current records at CG1 and CG2 which exhibit current speeds of over 40 cms^{-1}. An important conclusion is that the Beaufort gyre does not penetrate to depths greater than 40 m over the continental slope. In fact, the possibility is raised that the gyre may everywhere be confined to the surface layers under which a slow counter-clockwise flow of the Atlantic water dominates. One of the original intents of the experimental design was to define the sloping surface which was thought to bound the Beaufort gyre to the south. In that the westward flow associated with the gyre only occurs at depths less than 40 m, we have no direct measurements in this westward flow and our experiment can yield no information on the southern boundary of the gyre.

It is clear that the surface currents as well as the ice drift are driven by the direct wind stress. We have only performed cursory computations to investigate the wind-ice coupling which is dealt with in detail by Thorndike and Colony (1982). The more difficult question arising from this suite of data is the nature of the driving force for the eastward flow along the Beaufort Sea shelf and slope and the mechanisms which drive the large current reversals of July at current meters CG11, CG12 and CG21.

Aagaard (in press) discusses the subsurface eastward flow and refers to it as "The Beaufort Current". His measurements were all made shoreward of the 200 m isobath, and the deepest current meter was located at 188 m depth. He found no explanation for the eastward flow, but speculated that it was driven by the sea level difference between the Pacific and Atlantic Oceans and that the flow continues through the Canadian Archipelago into Baffin Bay. Although this explanation might hold in a long-term climatological sense, it sheds no light on the very pronounced fluctuations in current velocity measured in 1981.

We proceeded by examining local atmospheric driving forces in the Beaufort-Chukchi Sea region. H. Melling (pers. comm.) suggested that the Beaufort Current may behave similarly to a coastal undercurrent such as described by McCreary (1981). In this model, the alongshore gradient in the wind stress sets up an alongshore sea surface slope whose associated pressure gradient force is oppositely directed to that of the wind stress. The result is that surface currents flow counter to the deep current. The measurements in the Beaufort Current certainly support such a scheme and we sought to compare the time series of the longshore gradient in wind stress with the eastward flow of the current. Visual inspection of the two time series, Appendices 2 and 13, was disappointing, however, since the large current reversals in July did not seem correlated with an energetic event in the wind stress field. Coherence spectra were computed between the wind stress differences and the longshore component of current. In order to yield a high statistical confidence we computed the coherence in five frequency bands from low pass filtered data (periods shorter than 24 hours are excluded) sampled at 12 hour intervals. This scheme provided about 40 degrees of freedom and assured us that the problems of coherence computation between line spectra, each of 1 degree of freedom, would be avoided. The results of this coherence analysis are shown in Table 4. We were gratified to find the two data sets broadly coherent at a significance level exceeding 95%. We concluded that the coastal undercurrent dynamics could be applicable to the Beaufort Current.

In order to demonstrate that undercurrent dynamics were definitely applicable we also performed coherence computations between the longshore component of flow and the direct wind stress at one point. We found equivalently high coherence to that computed with the longshore wind stress gradient! Curious now, we computed coherence spectra between the flow and the offshore wind stress, between the flow and the curl of the wind stress over the Beaufort Sea and lastly, between the flow and the curl of the wind stress over the Chukchi Sea. All the meteorological forcings were coherent with the longshore component of flow at very highly significant levels as shown in Table 4. We cannot, therefore, prove our undercurrent hypothesis from the meteorological data that we have employed.

TABLE 4. COHERENCES BETWEEN THE LONGSHORE COMPONENT OF FLOW AT CG11 AND ATMOSPHERIC DRIVING FORCES

Central Frequency	.0028 h^{-1}	.0106 h^{-1}	.0210 h^{-1}	.0314 h^{-1}	.0391 h^{-1}
Range of Periods in Spectral Band	2650-149 h	149-63 h	63-38 h	38-28 h	28-23 h
Driving Forces:					
Alongshore Wind Stress Gradient	.409	.542	.274	.170	.215
Alongshore Wind Stress @ CG Mooring	.452	.266	.254	.135	.241
Offshore Wind Stress @ CG Mooring	.183	.403	.296	.328	.198
Curl of Wind Stress Beaufort	.358	.506	.217	.401	.200
Curl of Wind Stress Chukchi	.445	.286	.081	.206	.353

Note: 95% significance level in coherence for 40 degrees of freedom = 0.27.
80% significance level in coherence for 40 degrees of freedom = 0.20.

It is apparent from our computations that fluctuations in the Beaufort Current are coherent with fluctuations in the surface pressure field from which all our wind velocities and stresses are computed. Unfortunately, the surface pressure grid is very coarse in the Arctic Ocean with grid spacing of approximately 300 km. Along the Alaska-Yukon-N.W.T. coast the weather station spacing is little better, perhaps 200 km. We must conclude that demonstration of an hypothesis such as ours of an undercurrent can only be accomplished with wind data collected with anemometers erected on the sea ice over the continental shelf and slope. These would have to be located along the length of the Alaska-Yukon-N.W.T. coast and spaced at intervals of 100 km or less. Similar weather stations would be required in the Chukchi Sea and Bering Strait in order to derive a physical understanding of the currents other than that they are driven by large-scale atmospheric pressure gradients. (Most oceanic flows are driven indirectly by the atmosphere, the only exception of note being the tides).

In order to explain the sense of flow and the attendant large variations in the flow, it will be necessary to collect sufficient meteorological data to distinguish between general fluctuations of atmospheric kinetic energy with time and the fluctuation of that physical quantity which, in fact, drives the Beaufort Current counter to the motion of the pack ice.

8. REFERENCES

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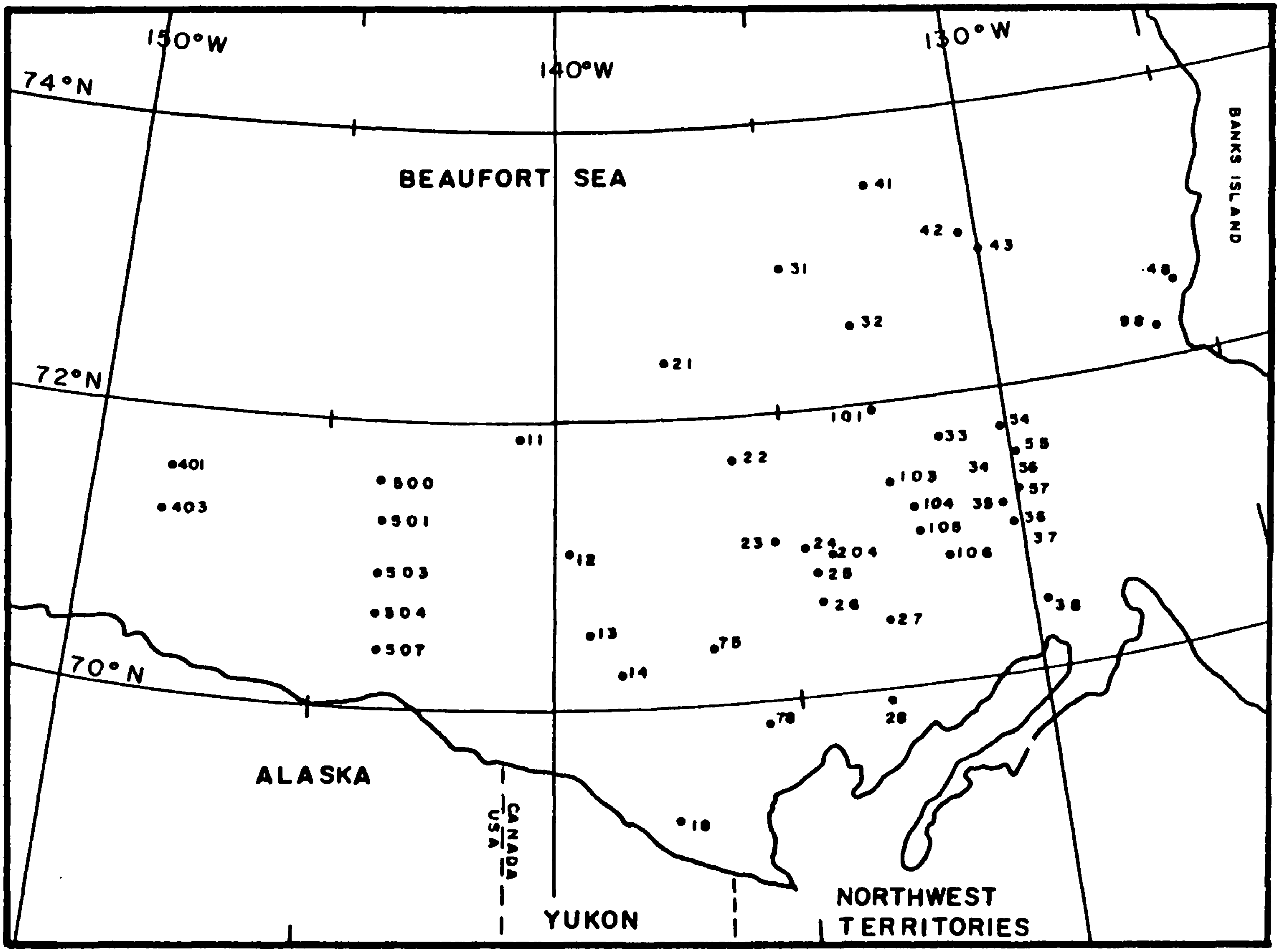
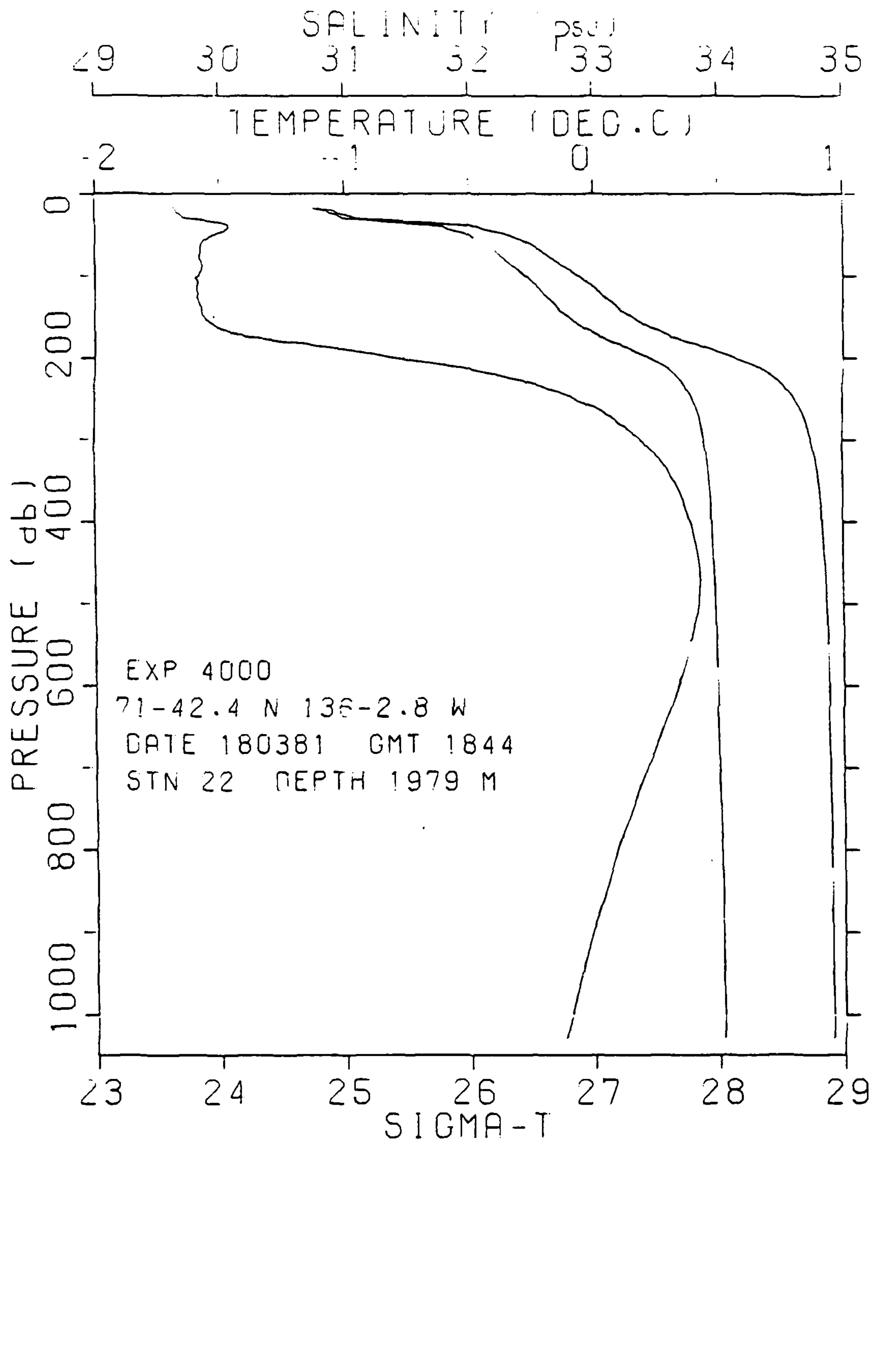
DATA APPENDIX 1

CTD Casts

Location of CTD stations are indicated on the following page.
Dates and times are GMT.
Date is MONTH DAY YEAR.
Pressure in decibars, roughly equivalent to depth in metres.
Salinity in Practical Salinity Units, nearly identical to parts per thousand.



BEAUFORT SEA
BANKS ISLAND
ALASKA
YUKON
NORTHWEST TERRITORIES
CANADA
USA
74°N
72°N
70°N
150°W
140°W
130°W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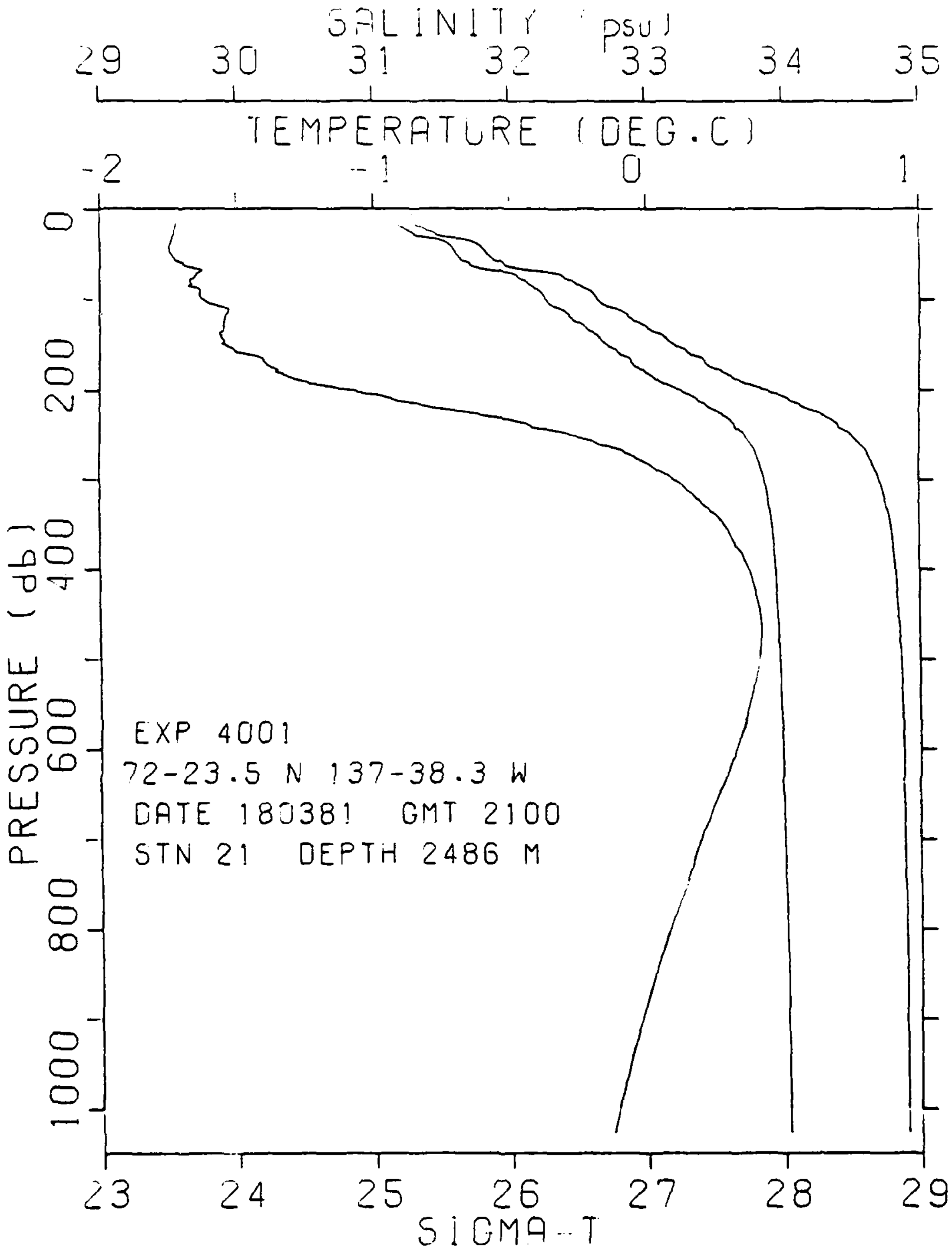

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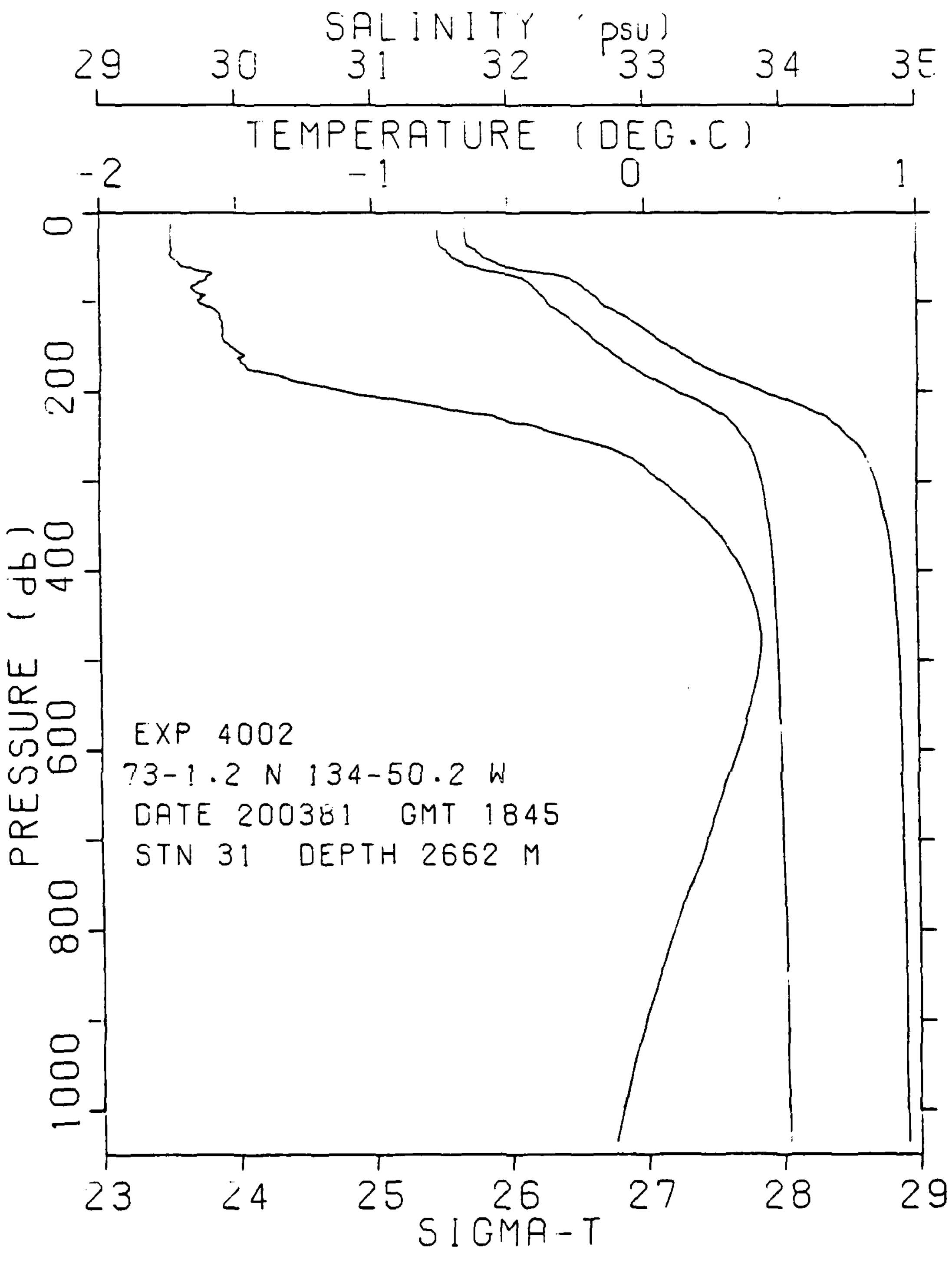
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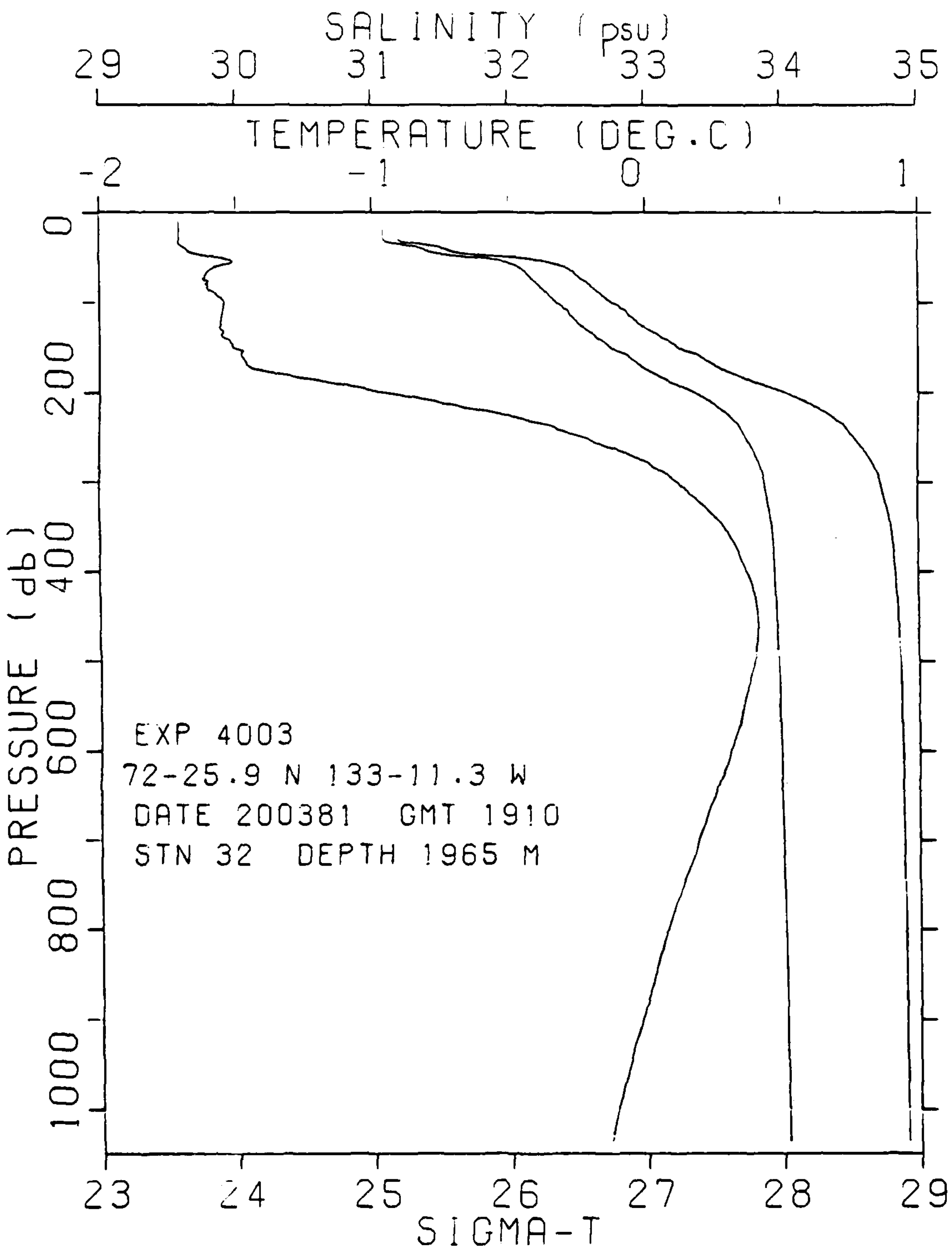

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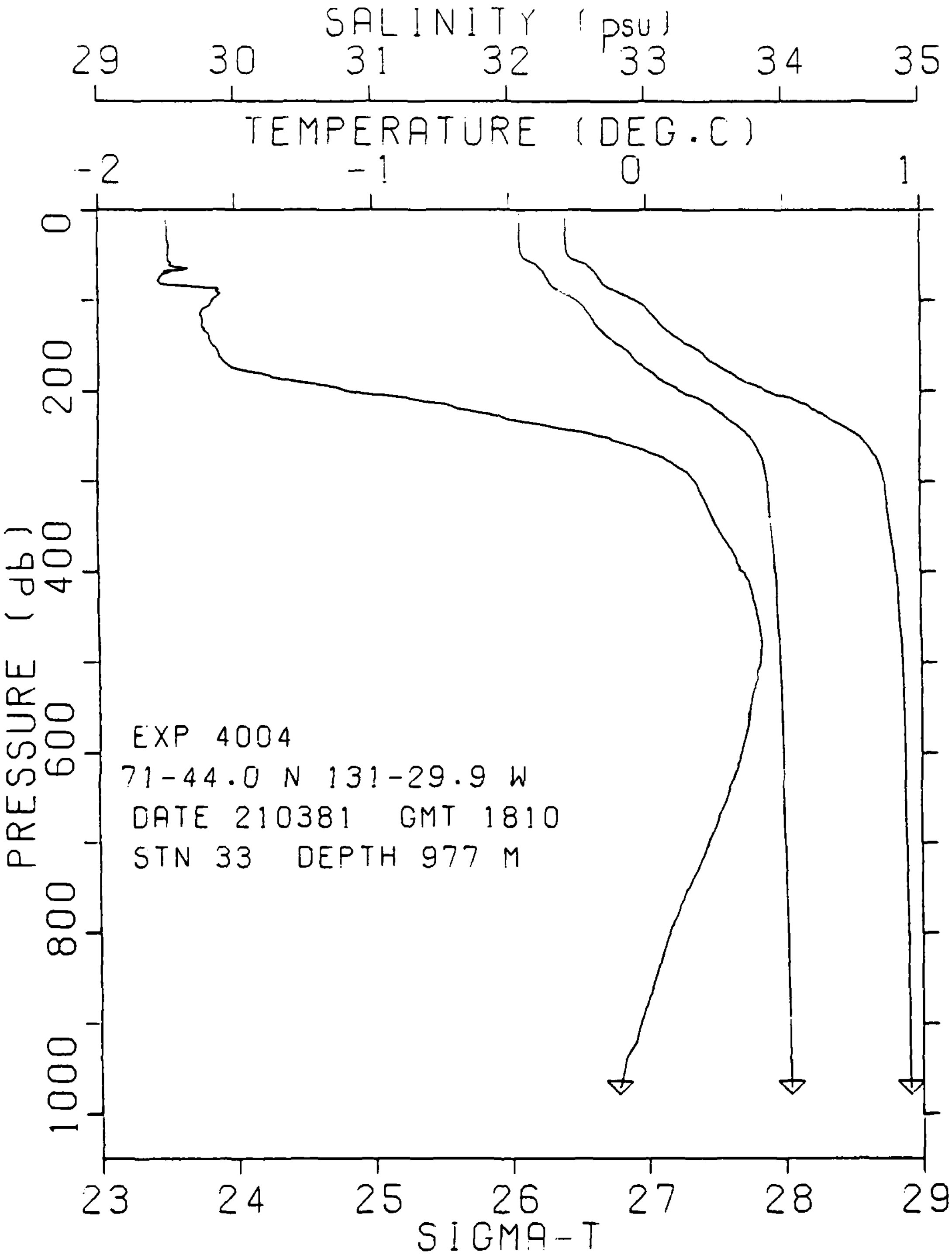
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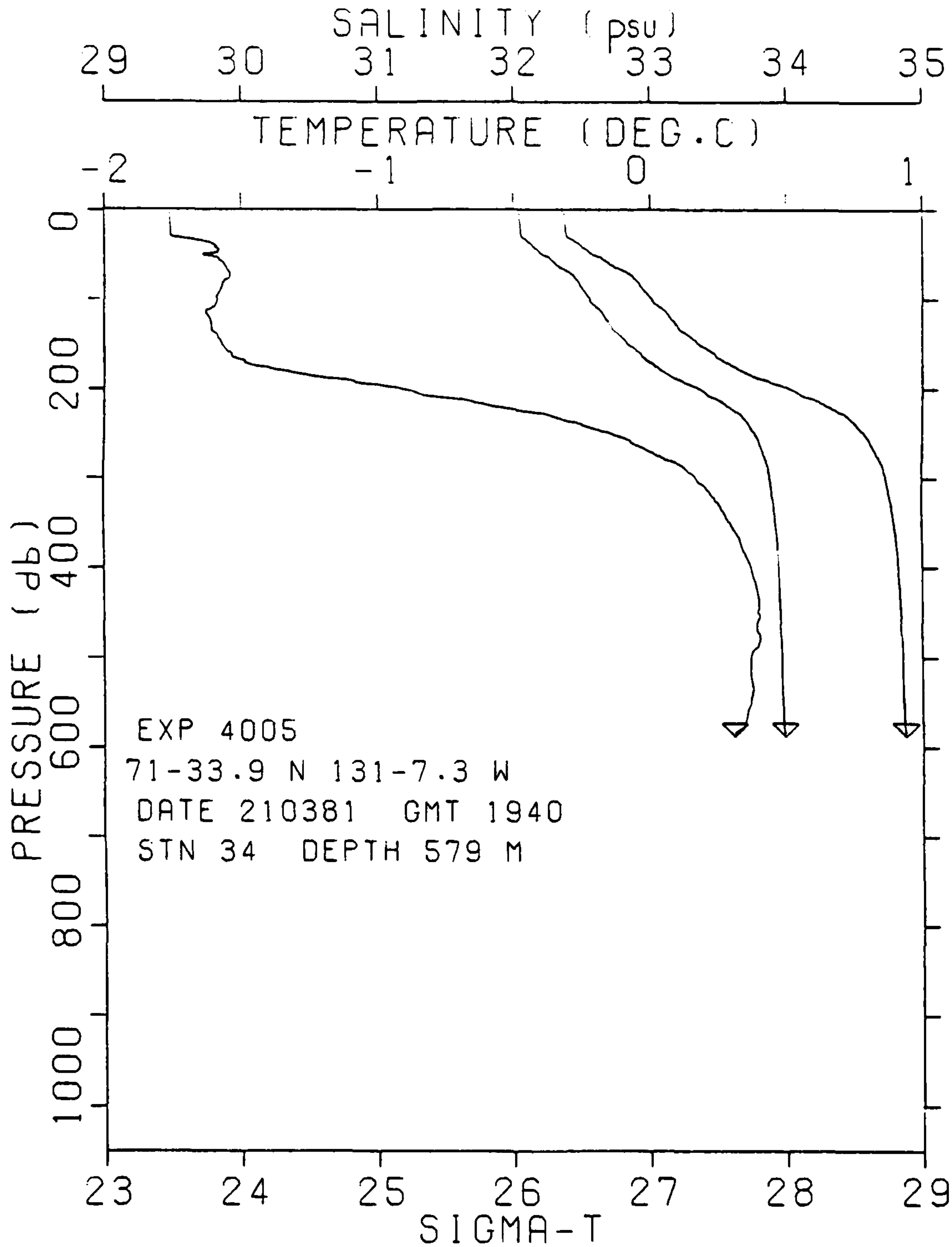
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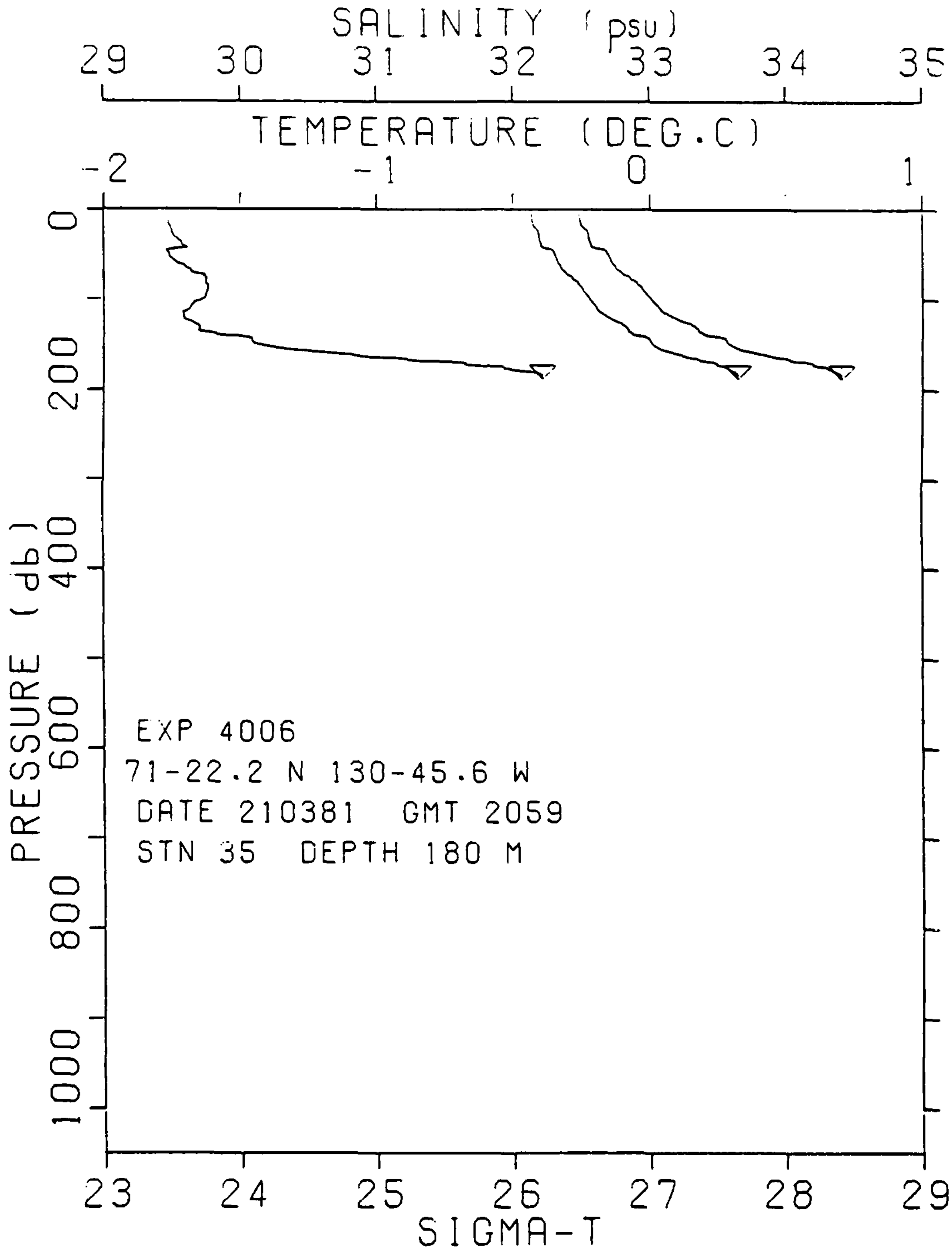
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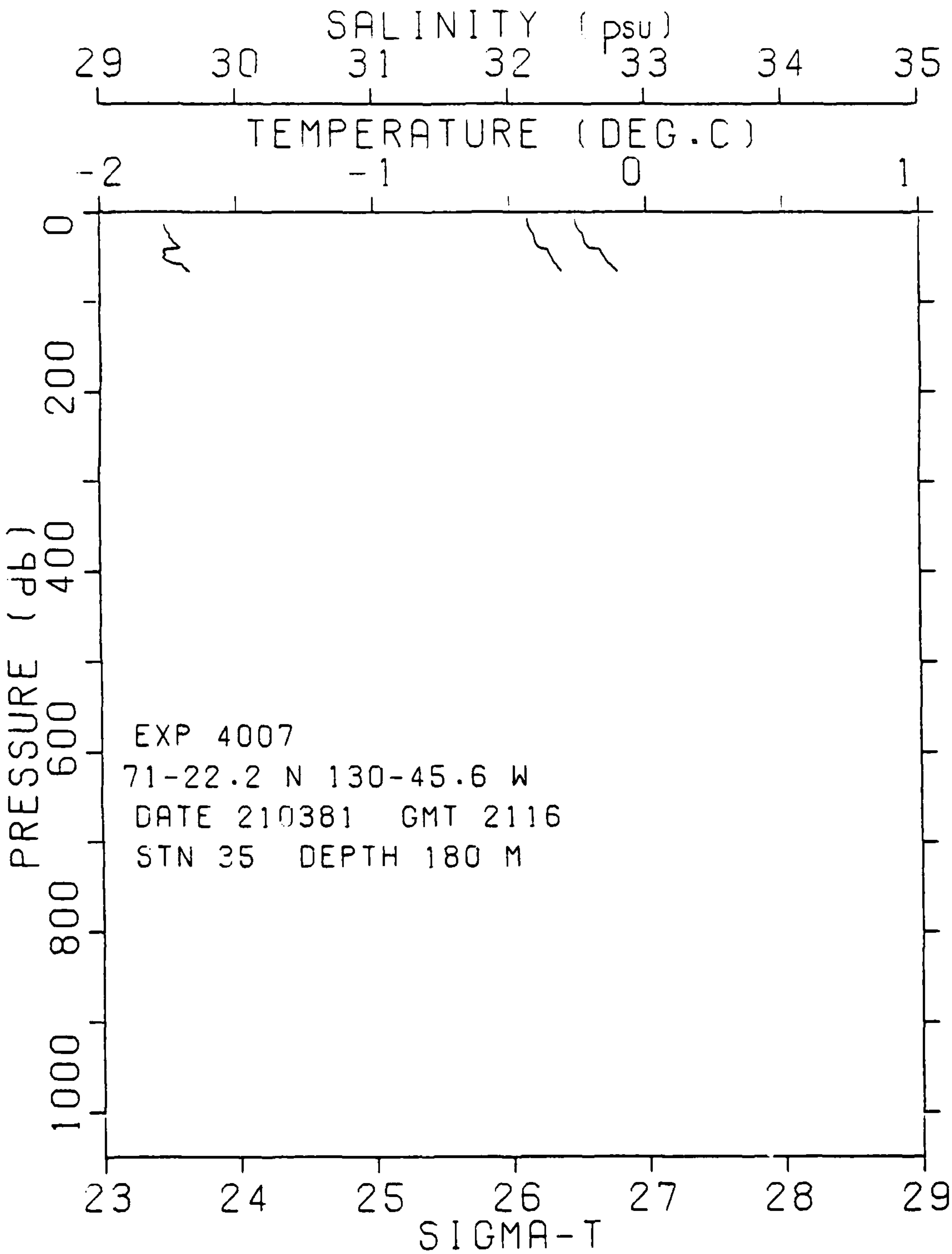
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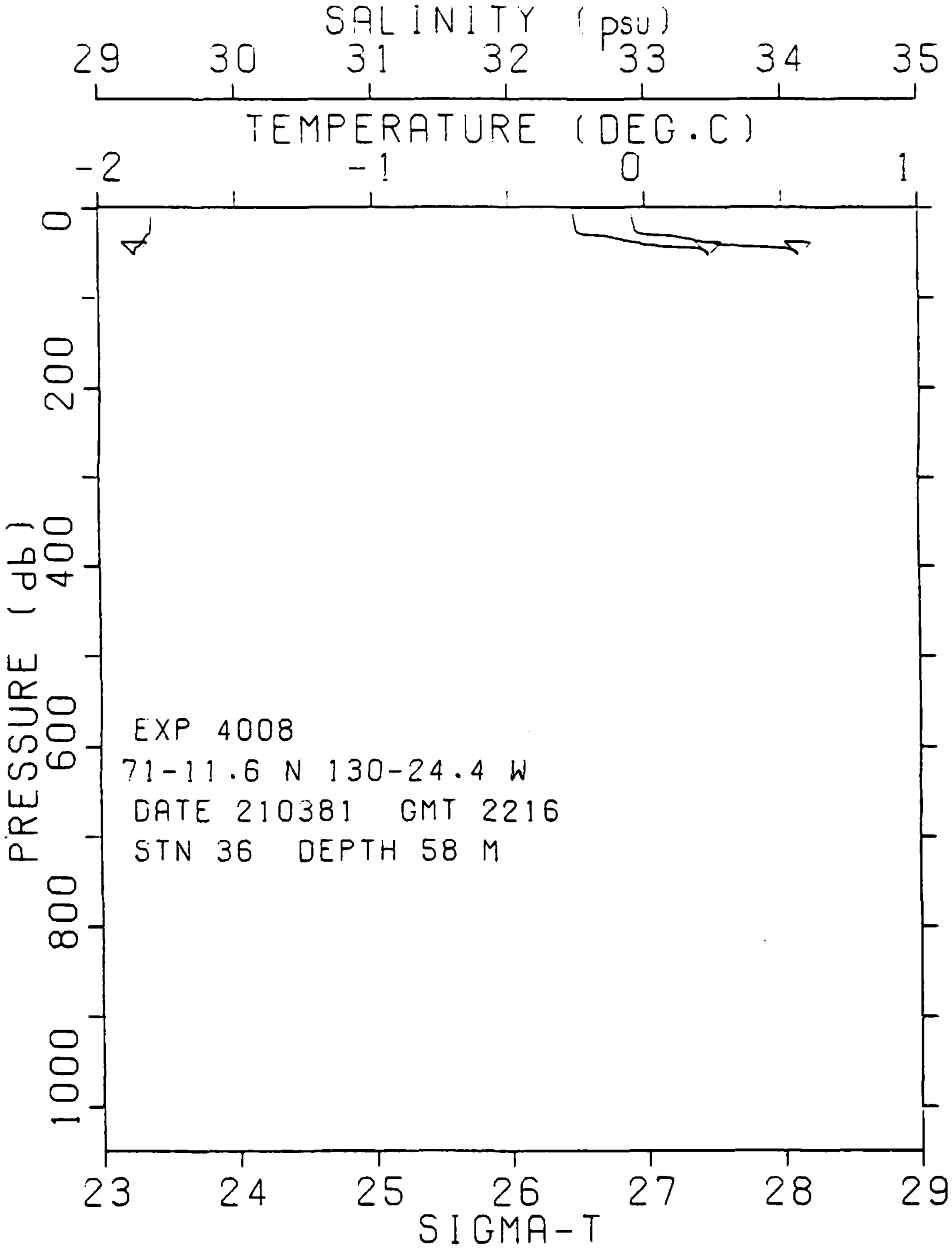
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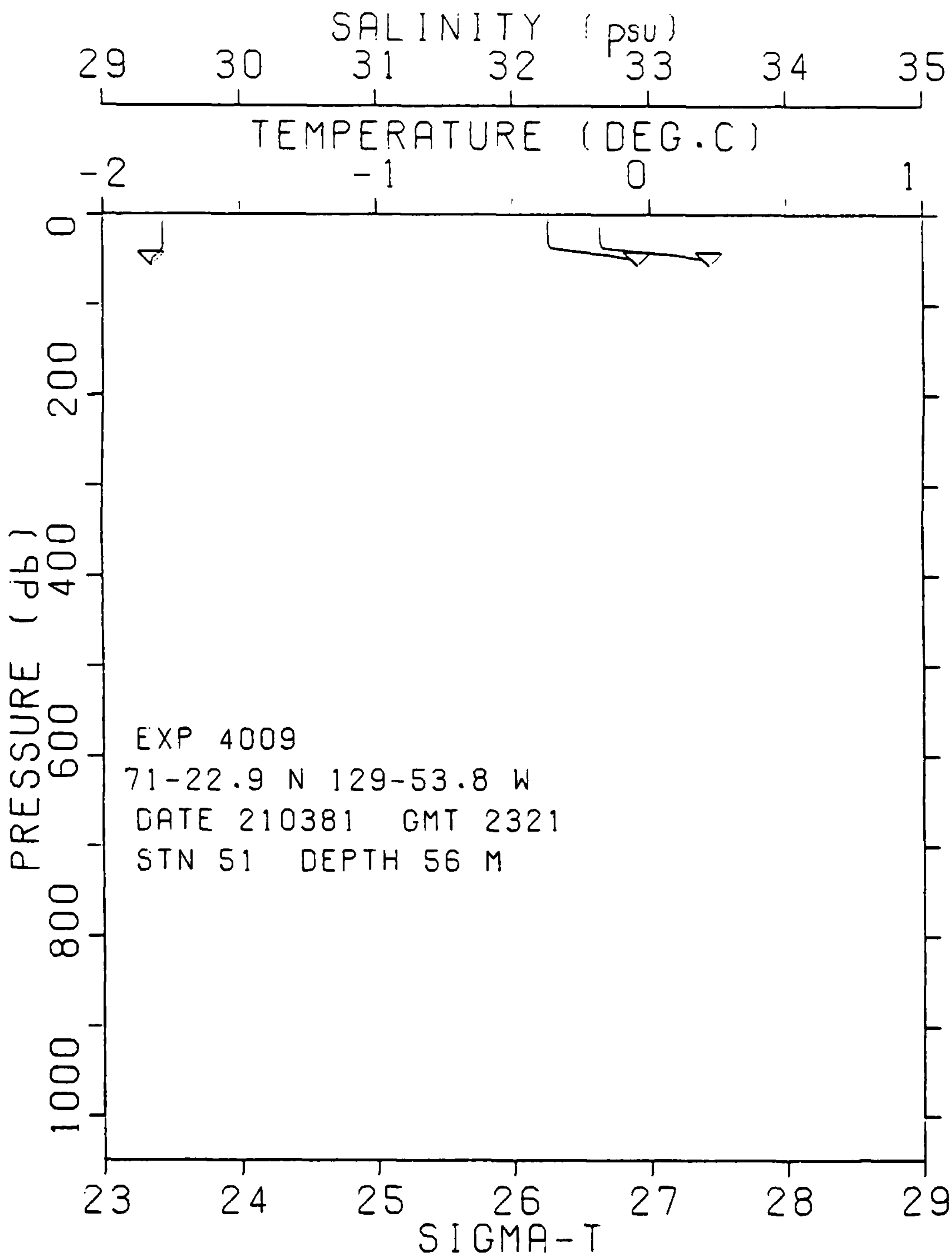
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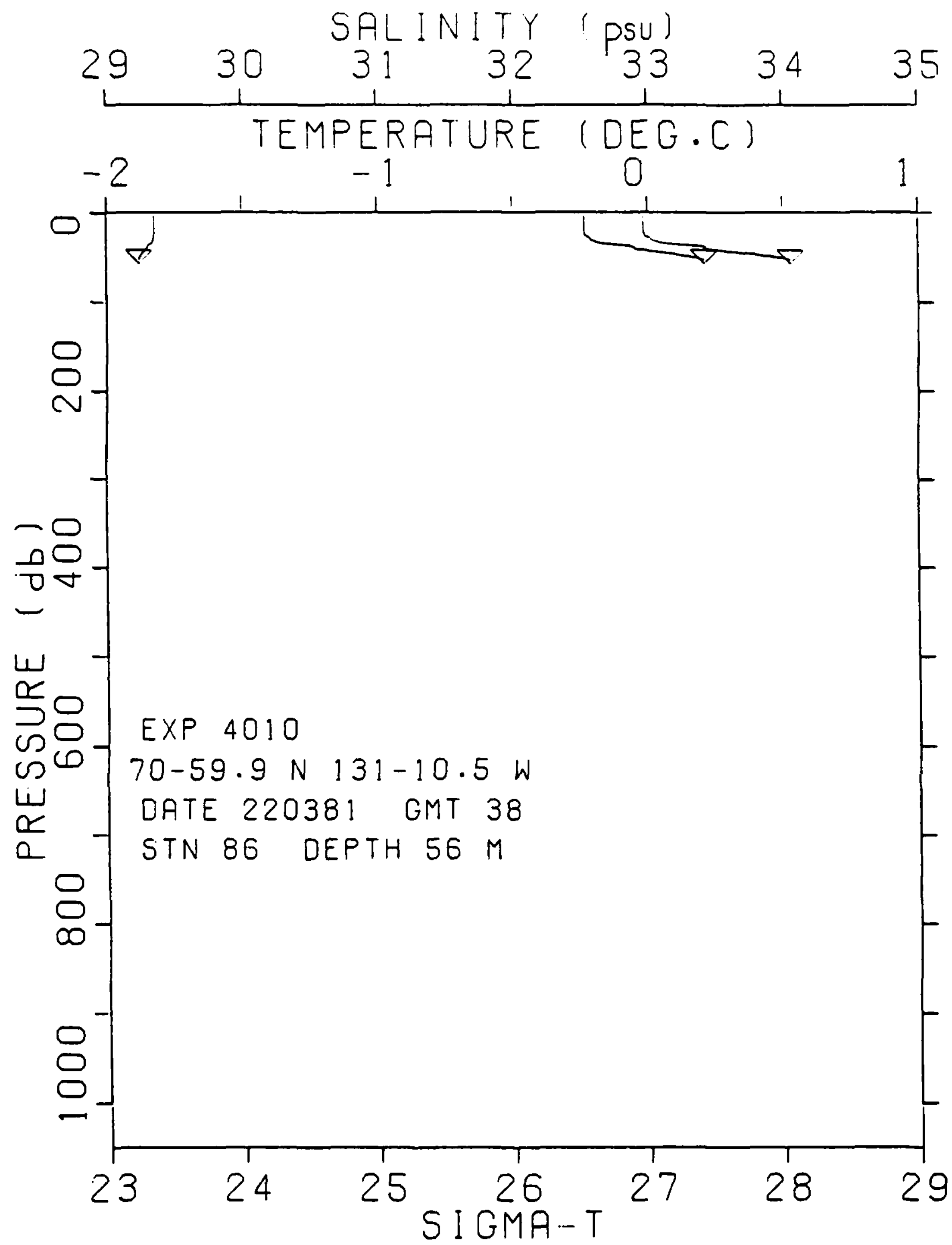

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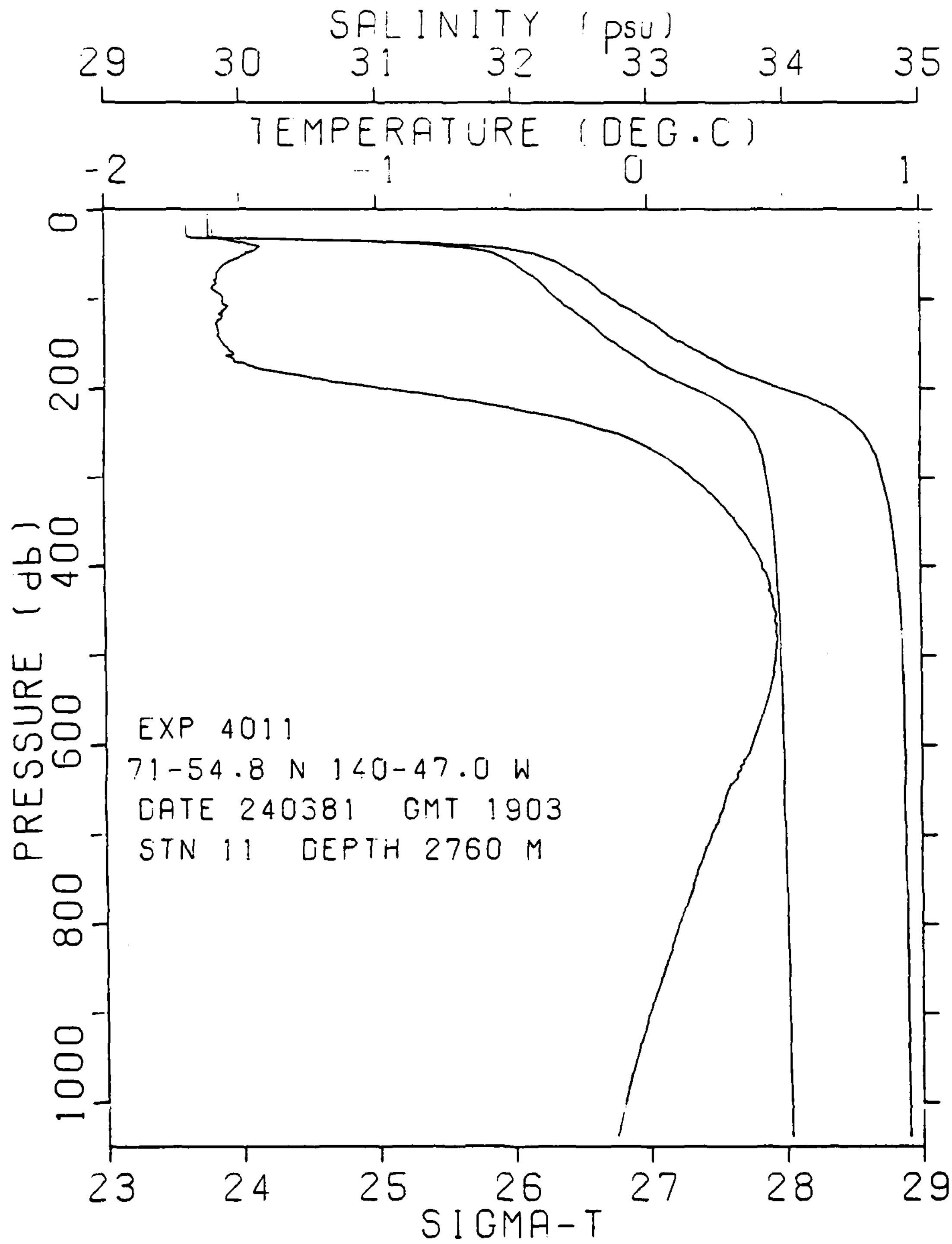

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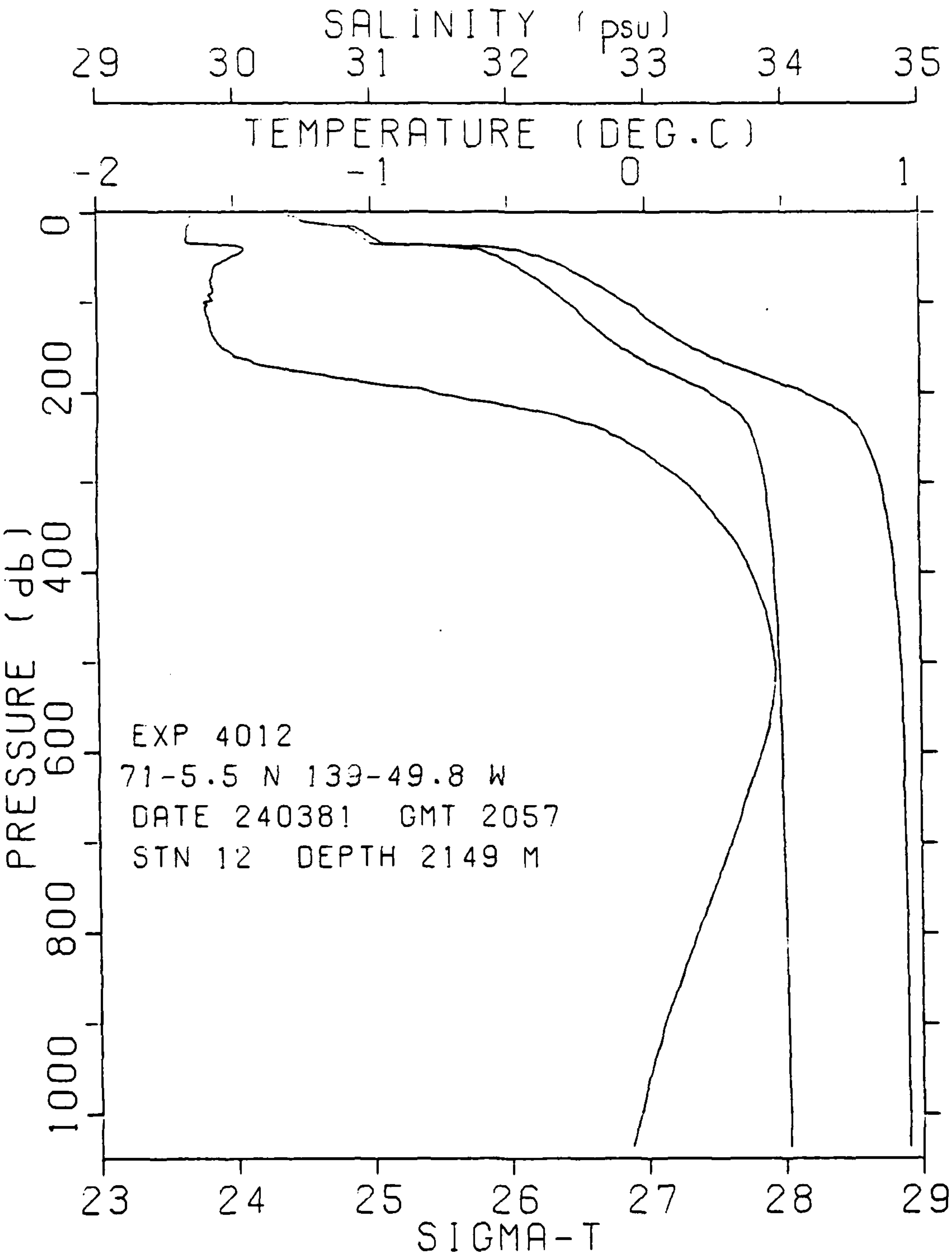

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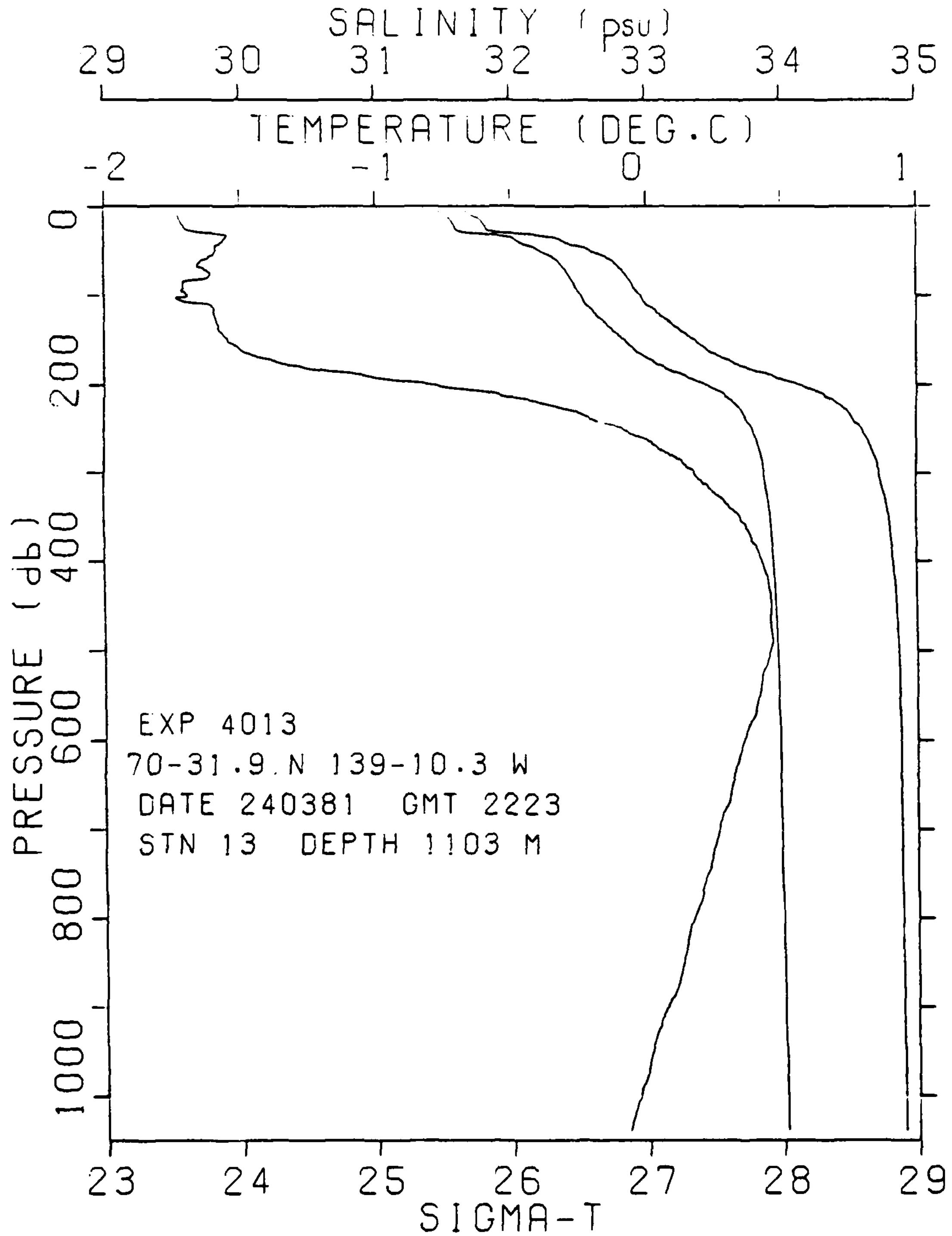
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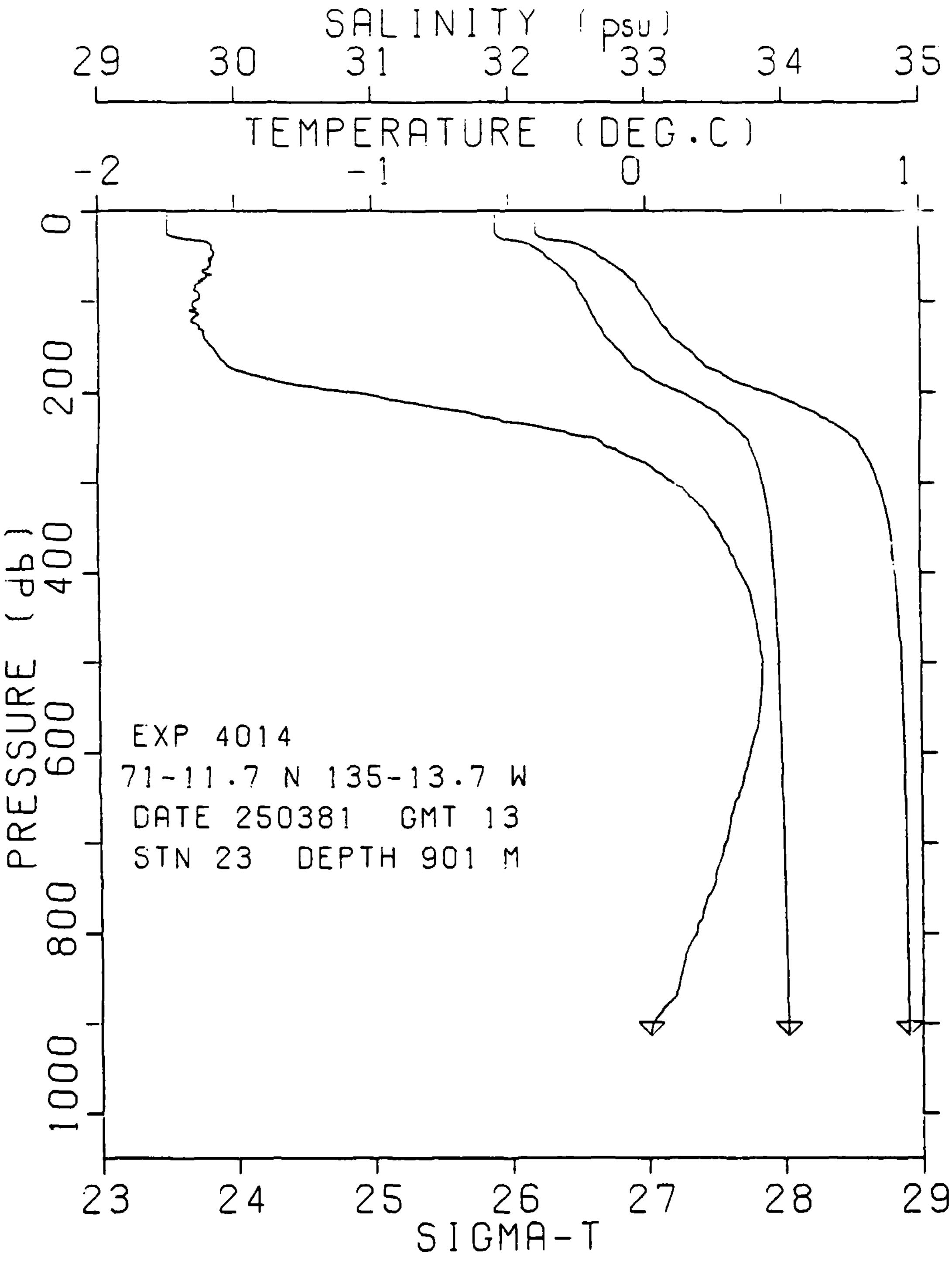

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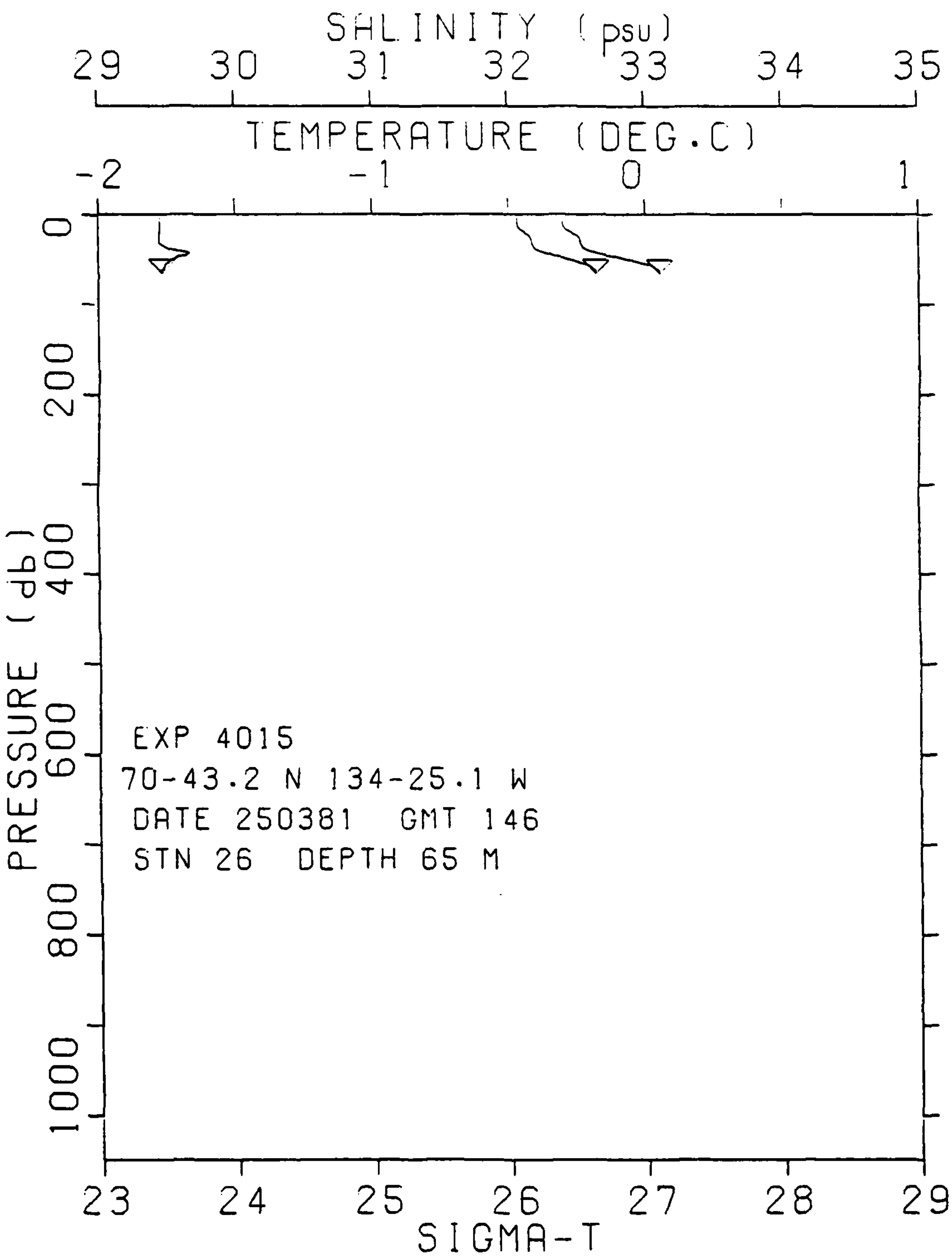
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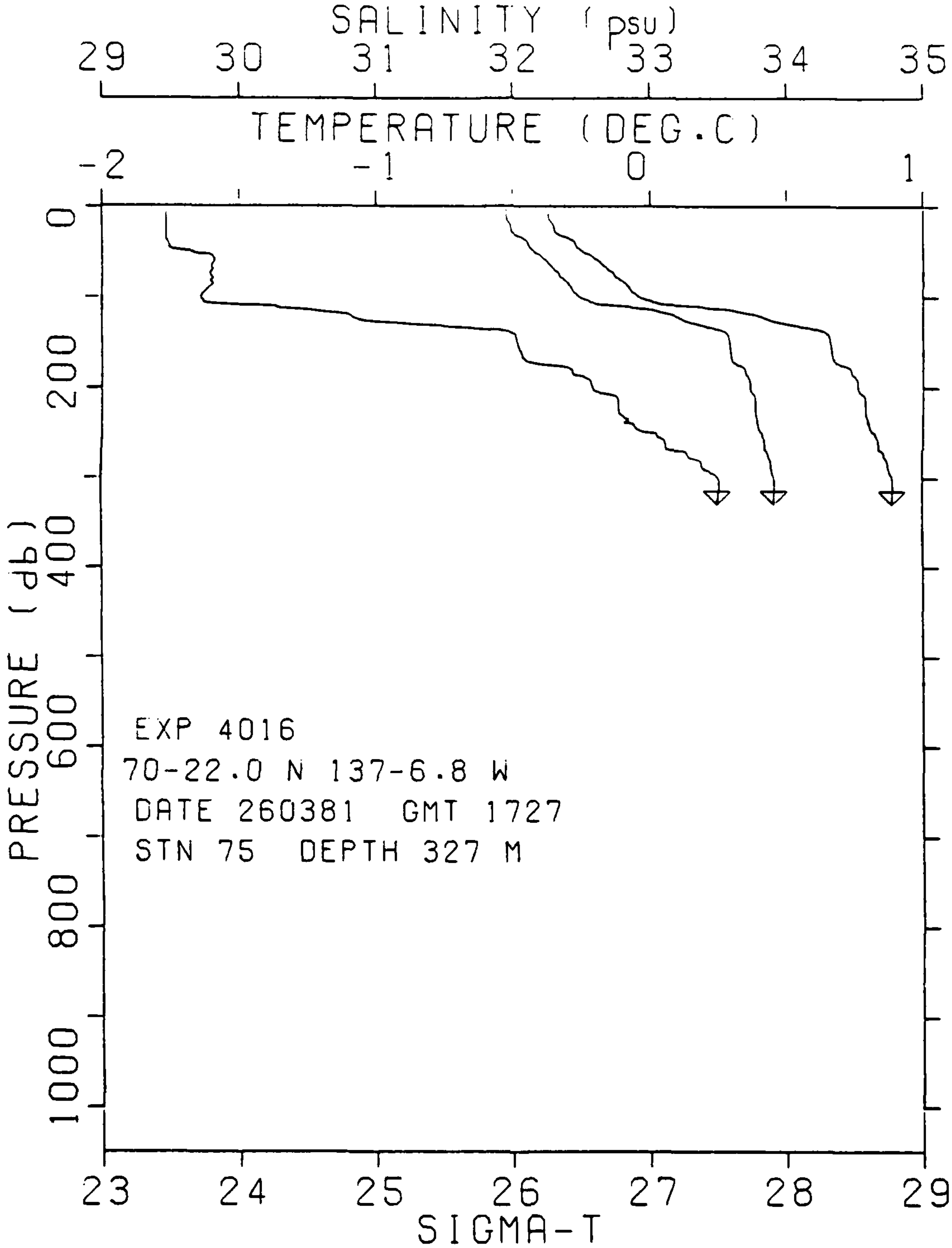

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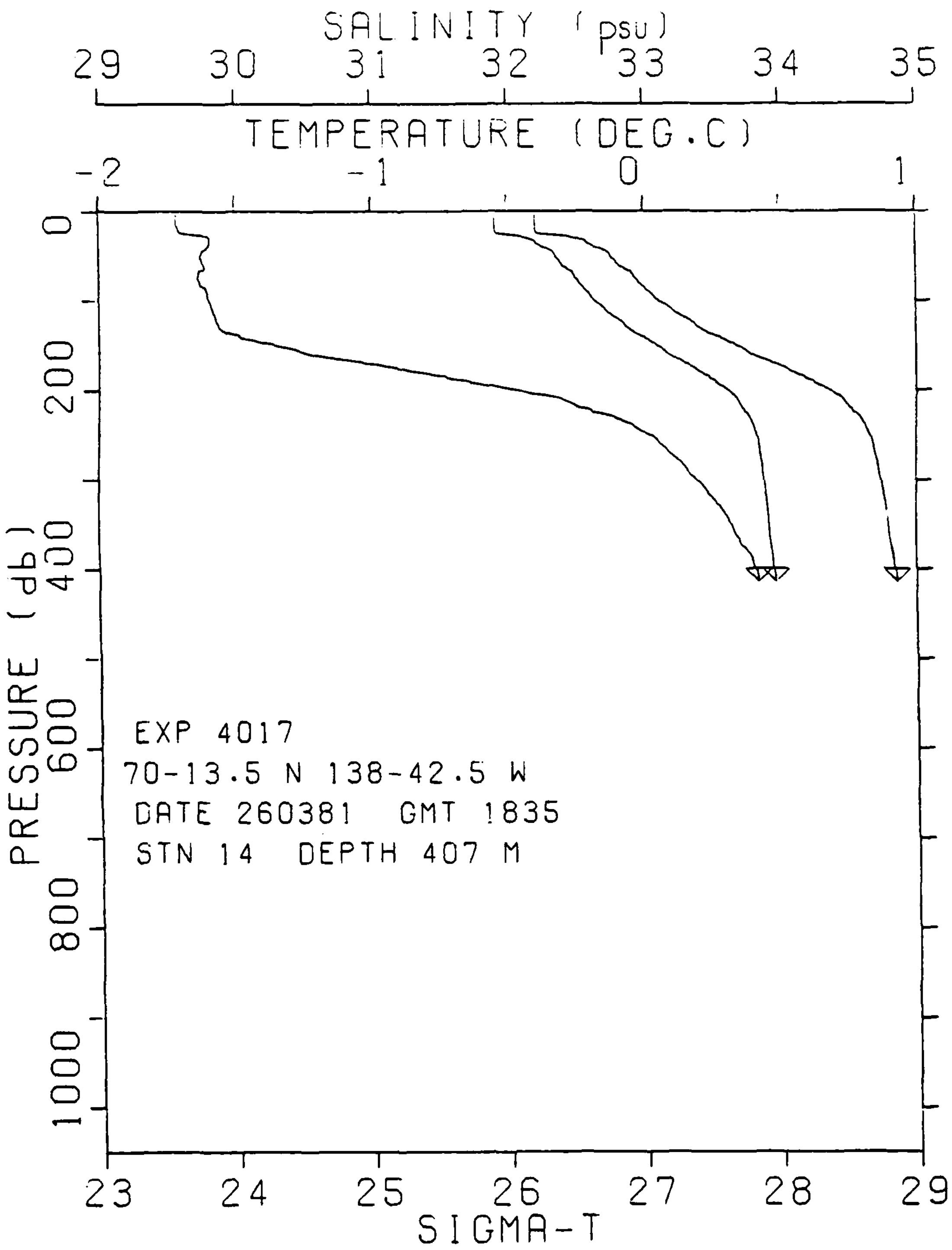
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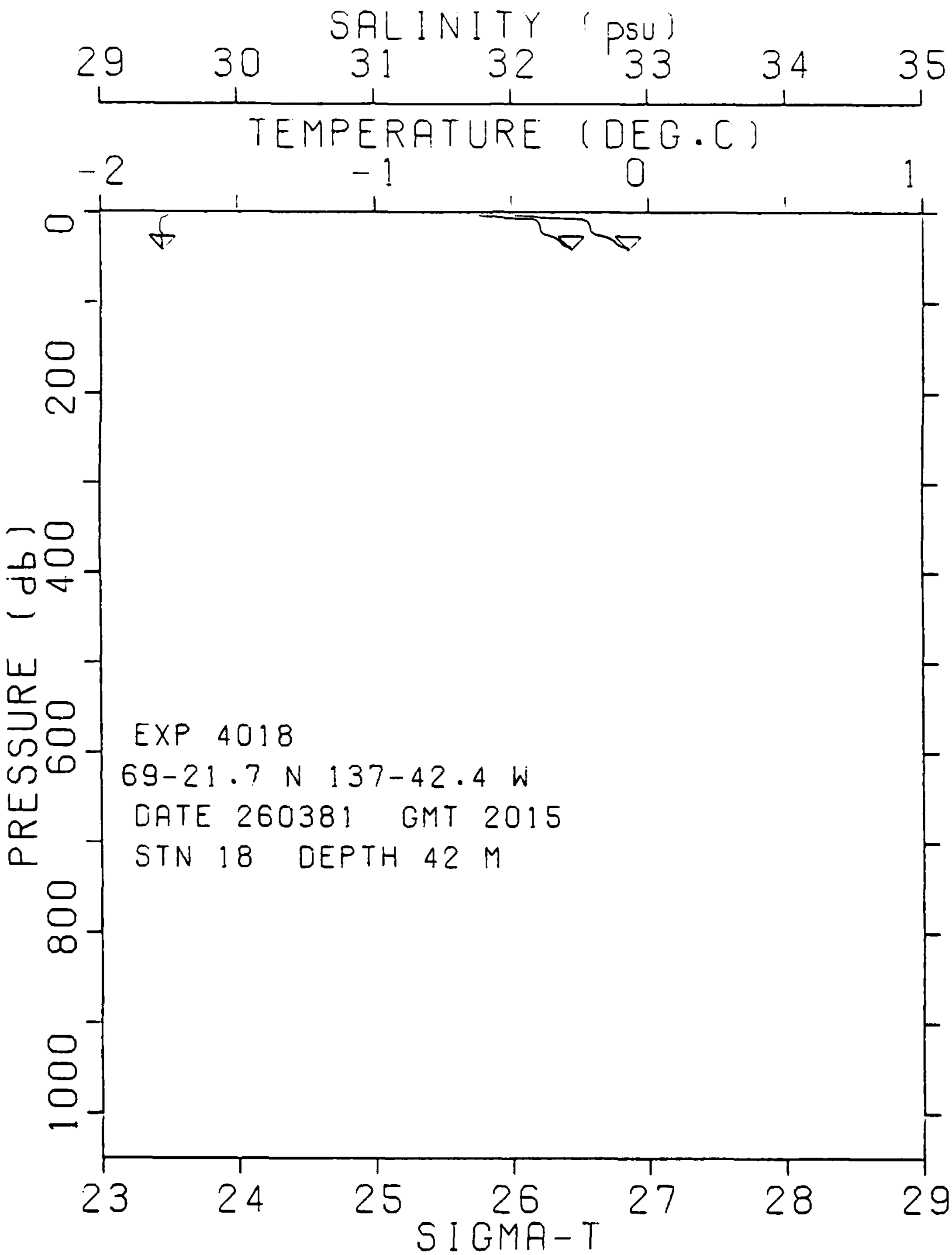
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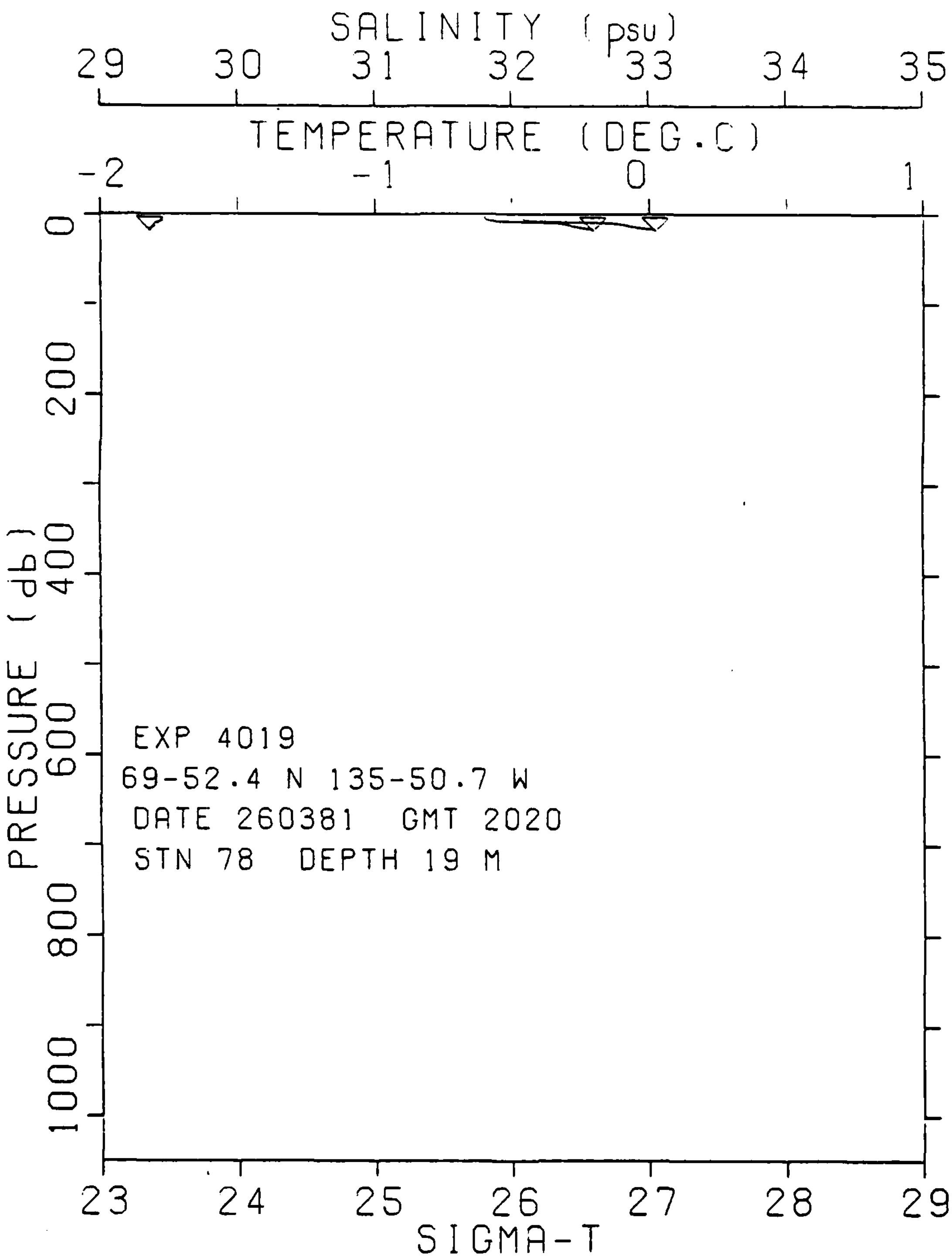
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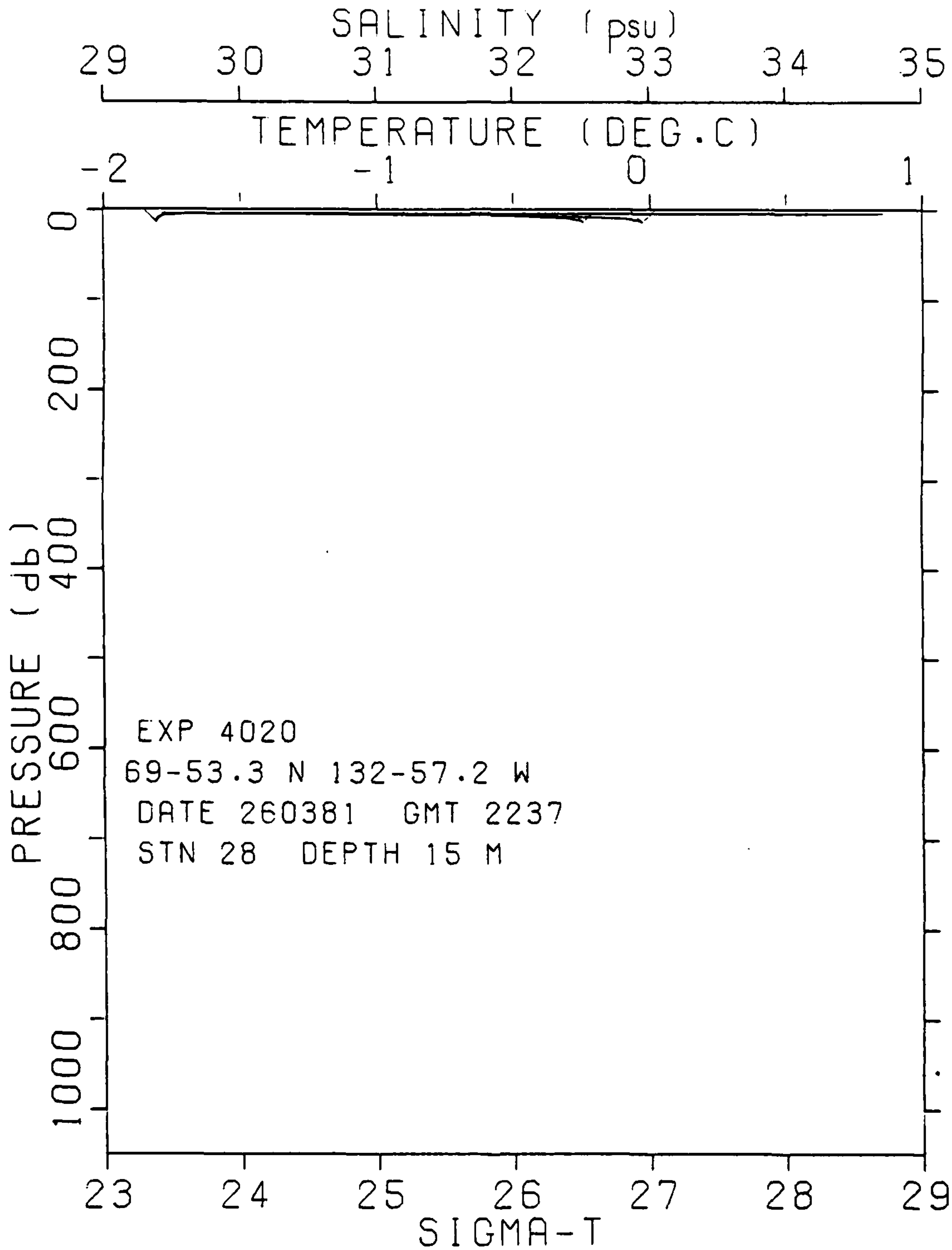
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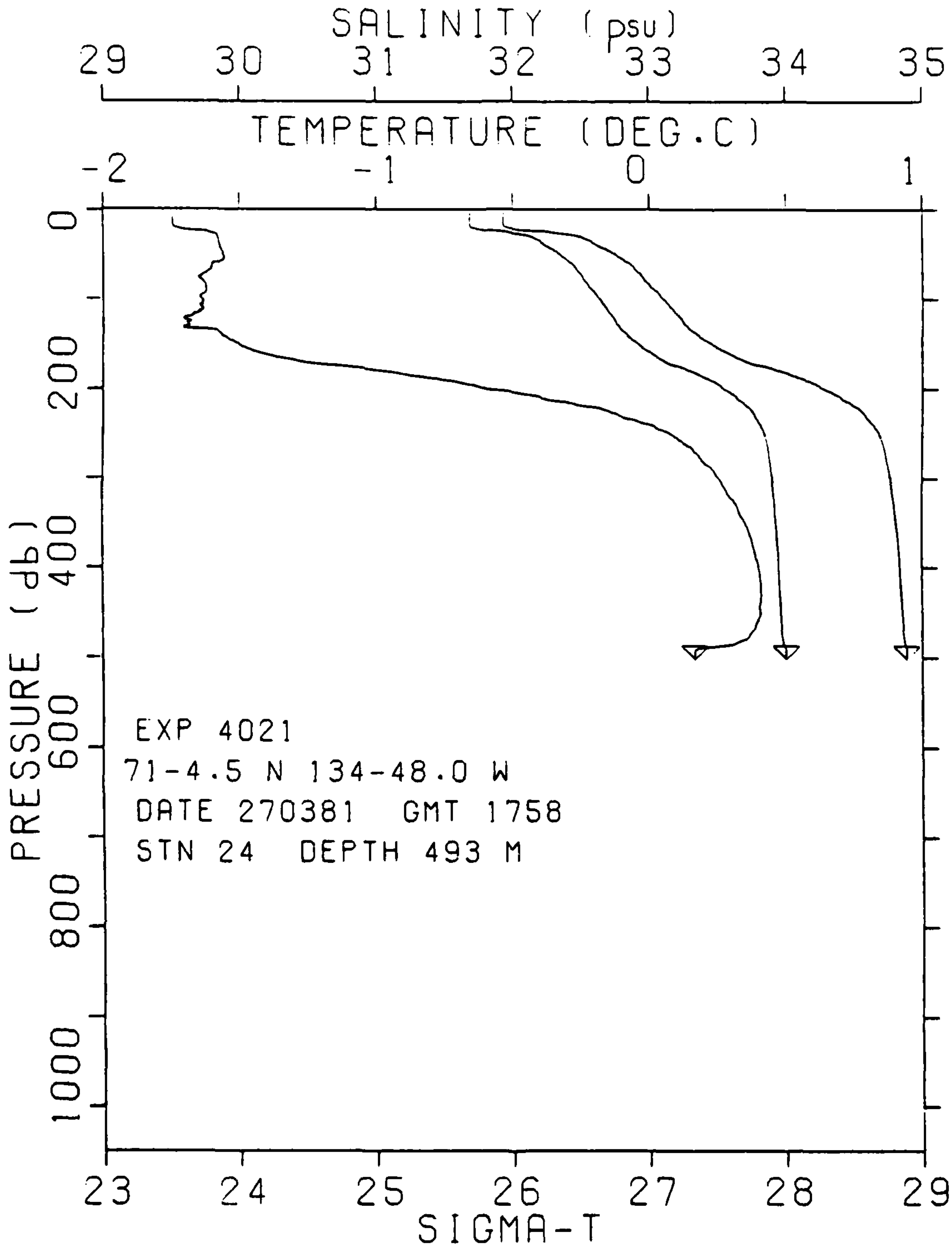
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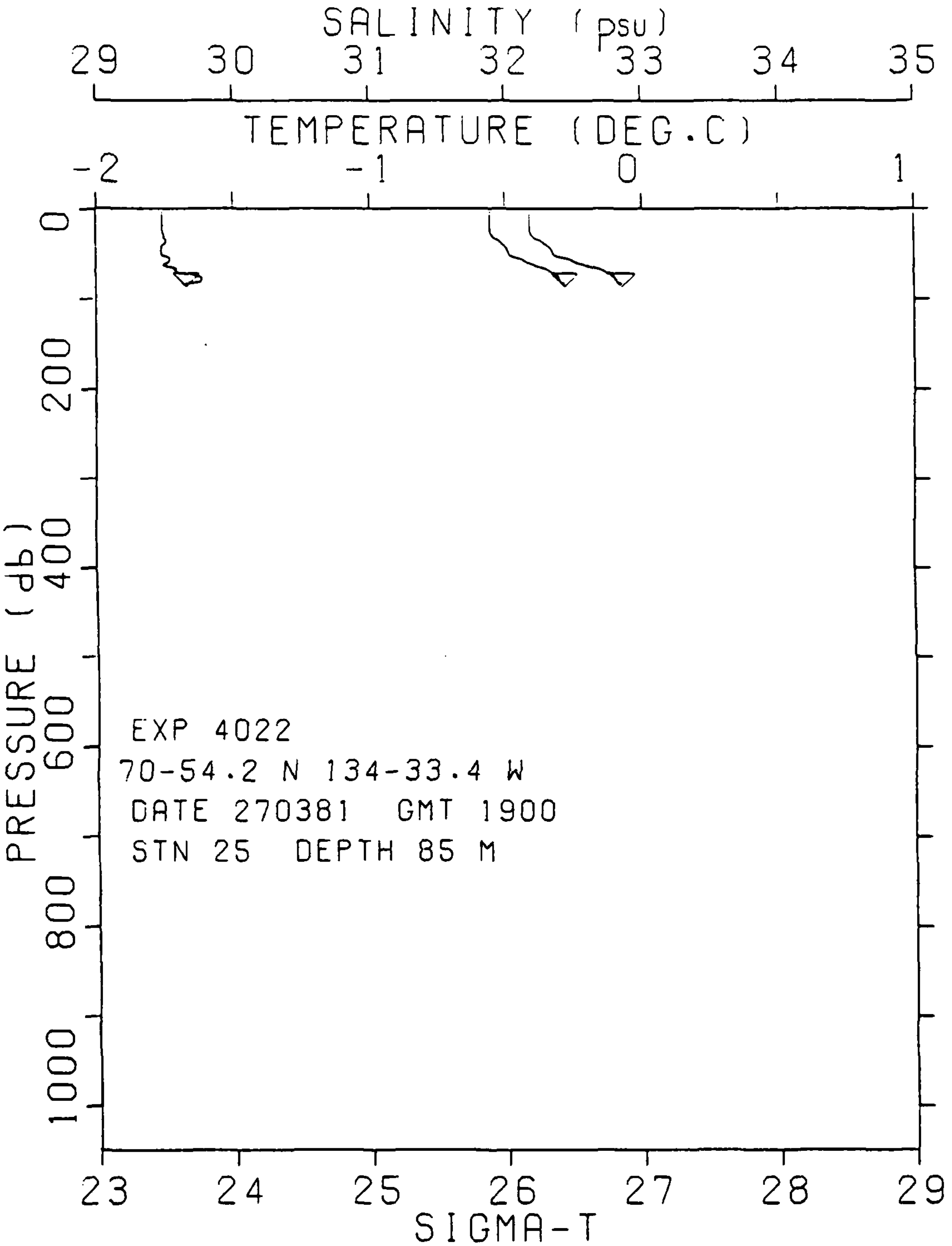
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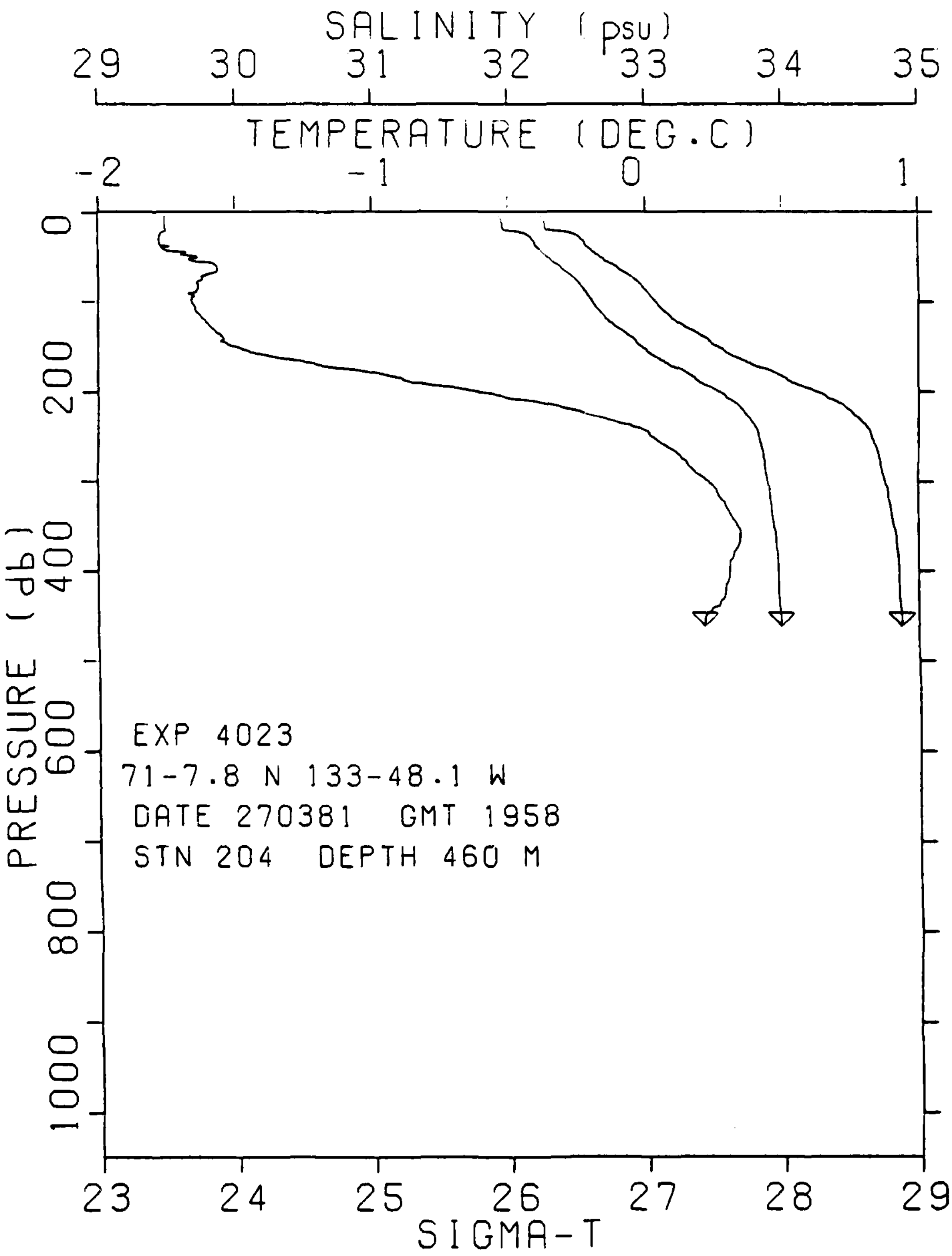

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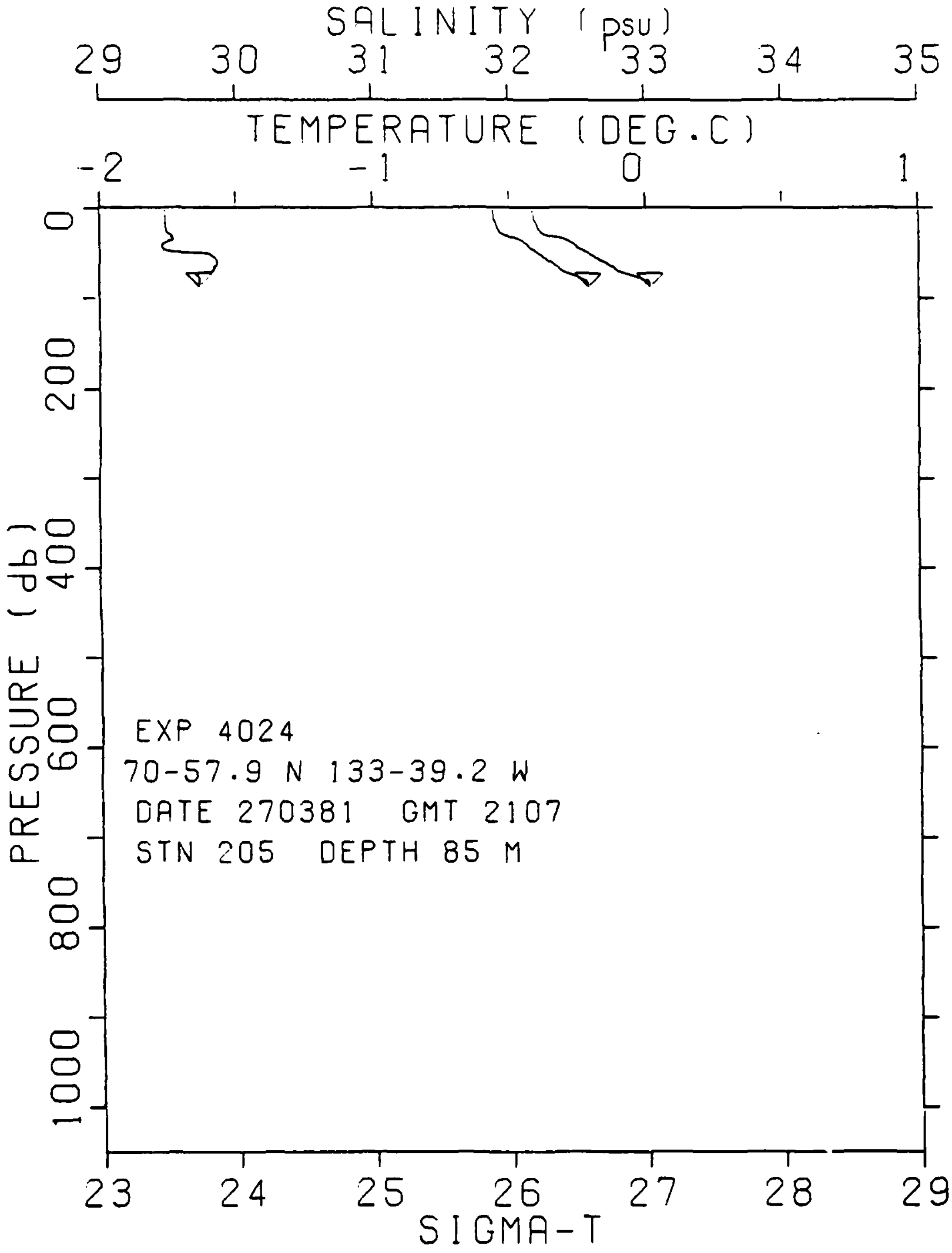
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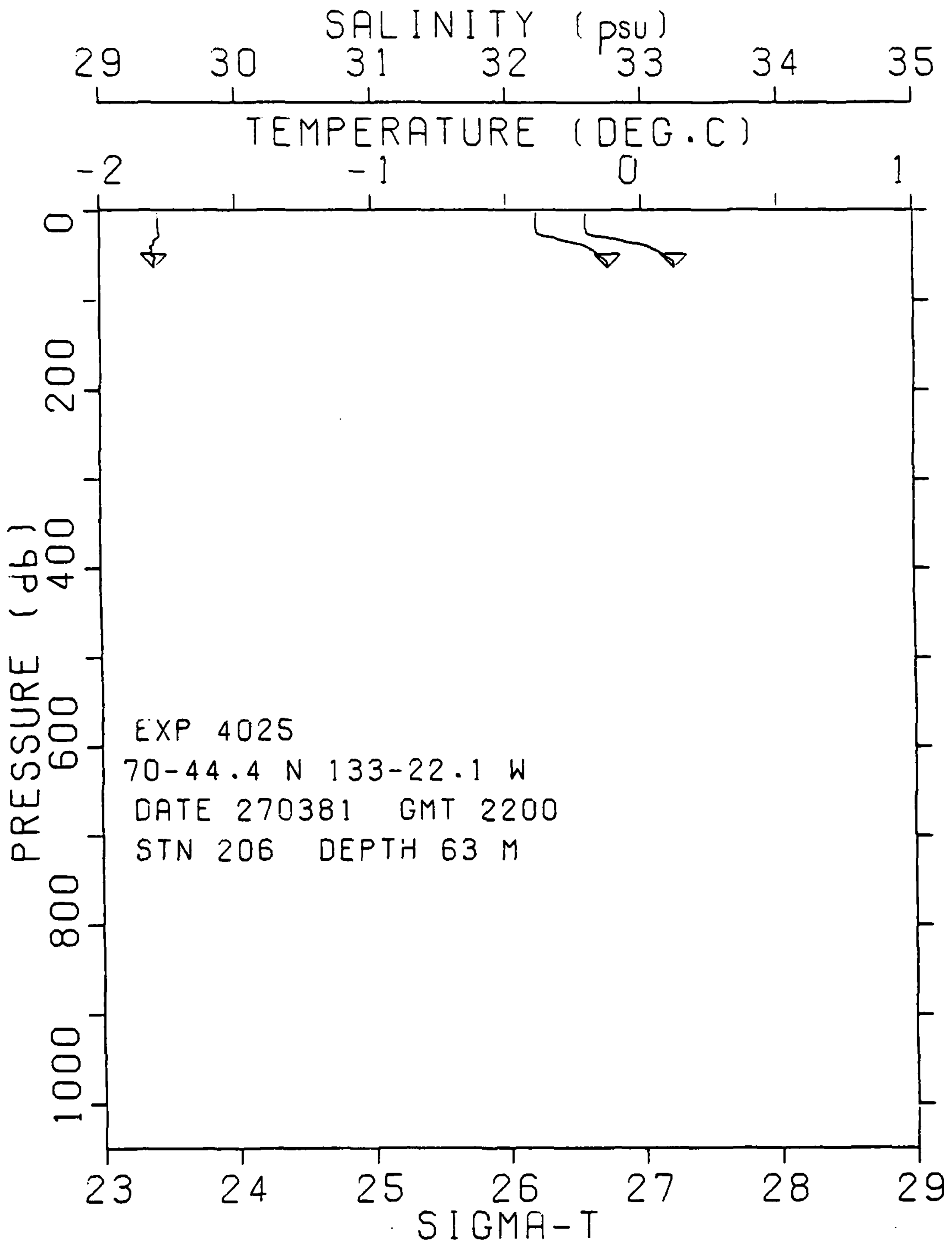
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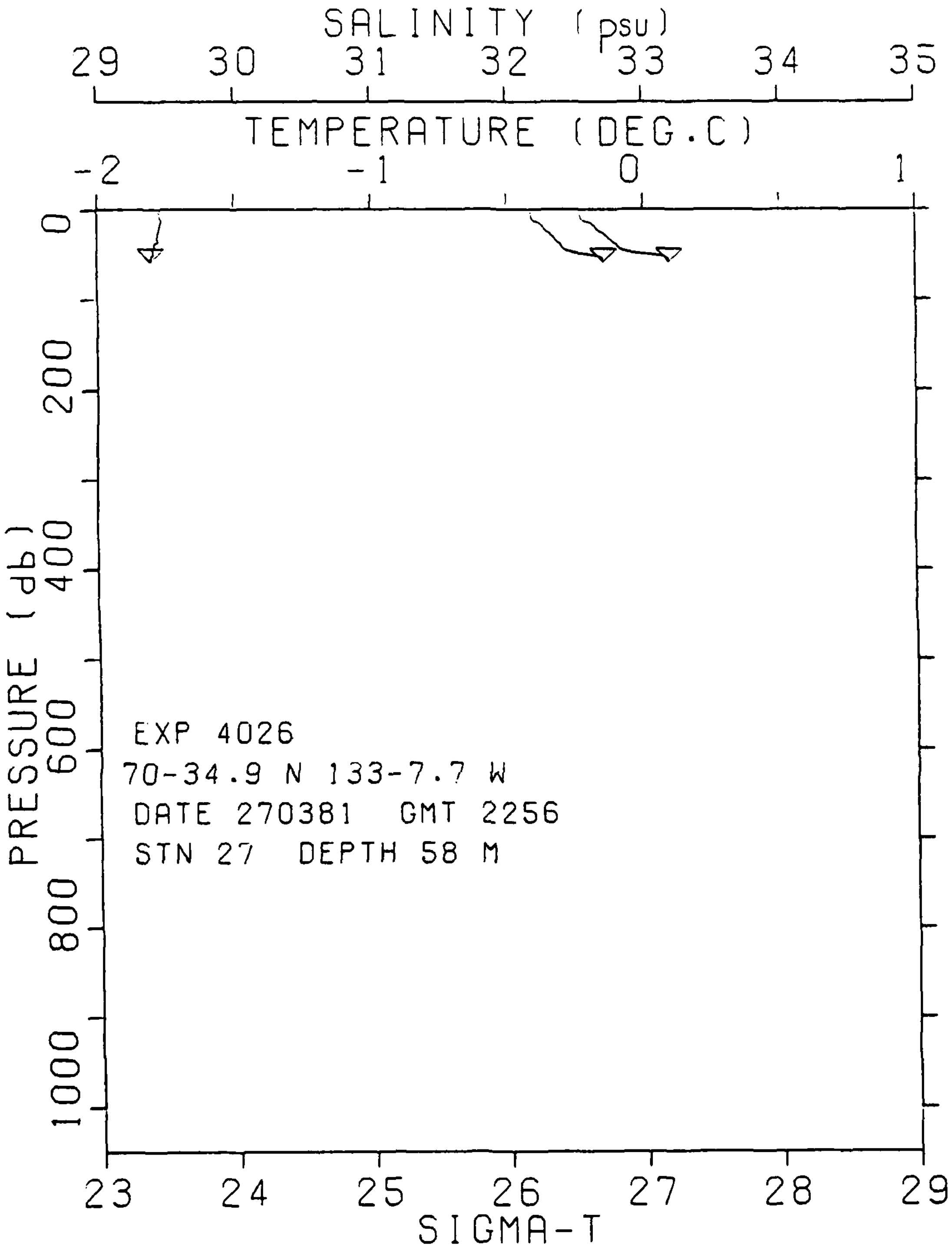

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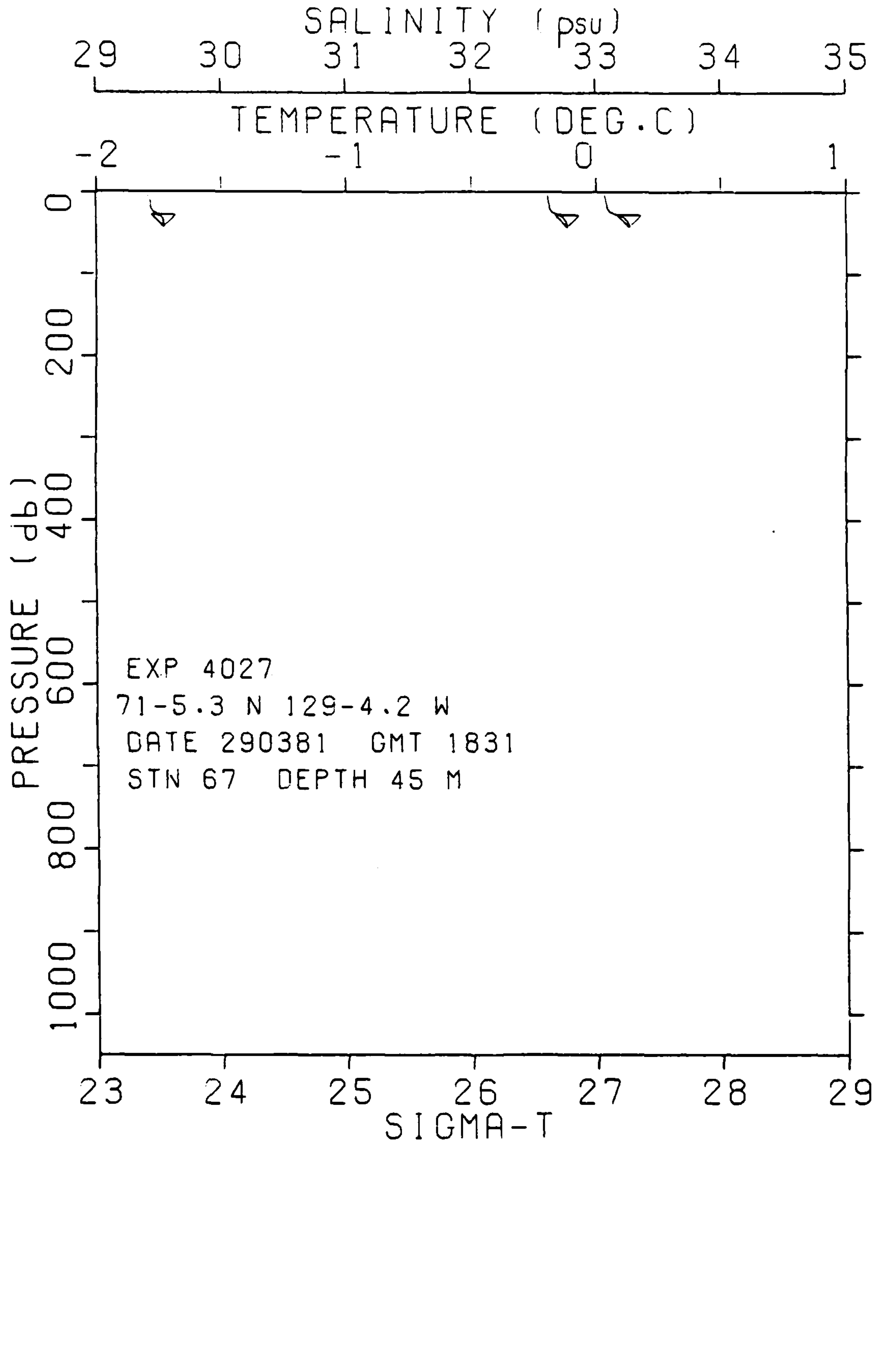
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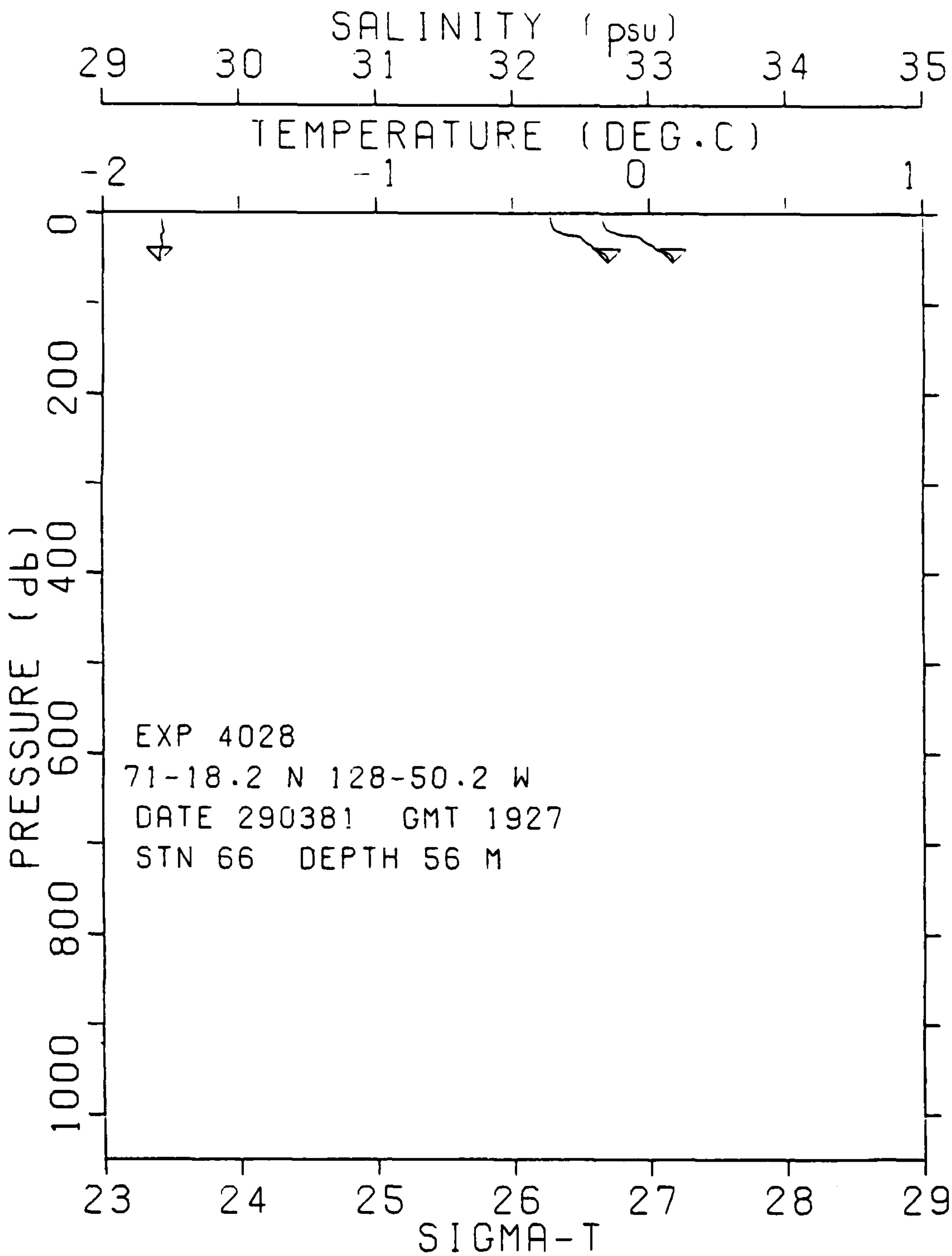
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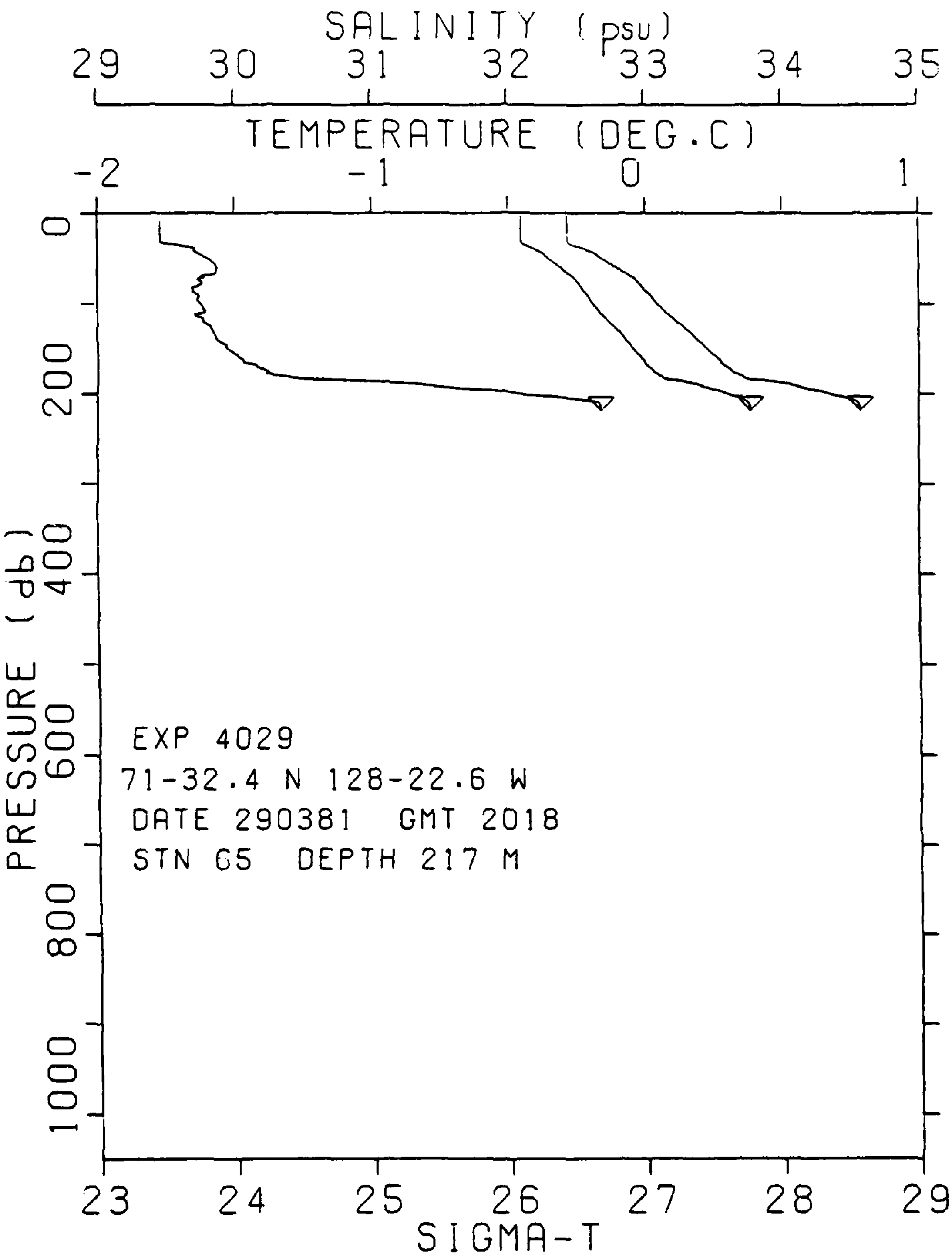

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DATE 290381 GMT 2018
STN G5 DEPTH 217 M
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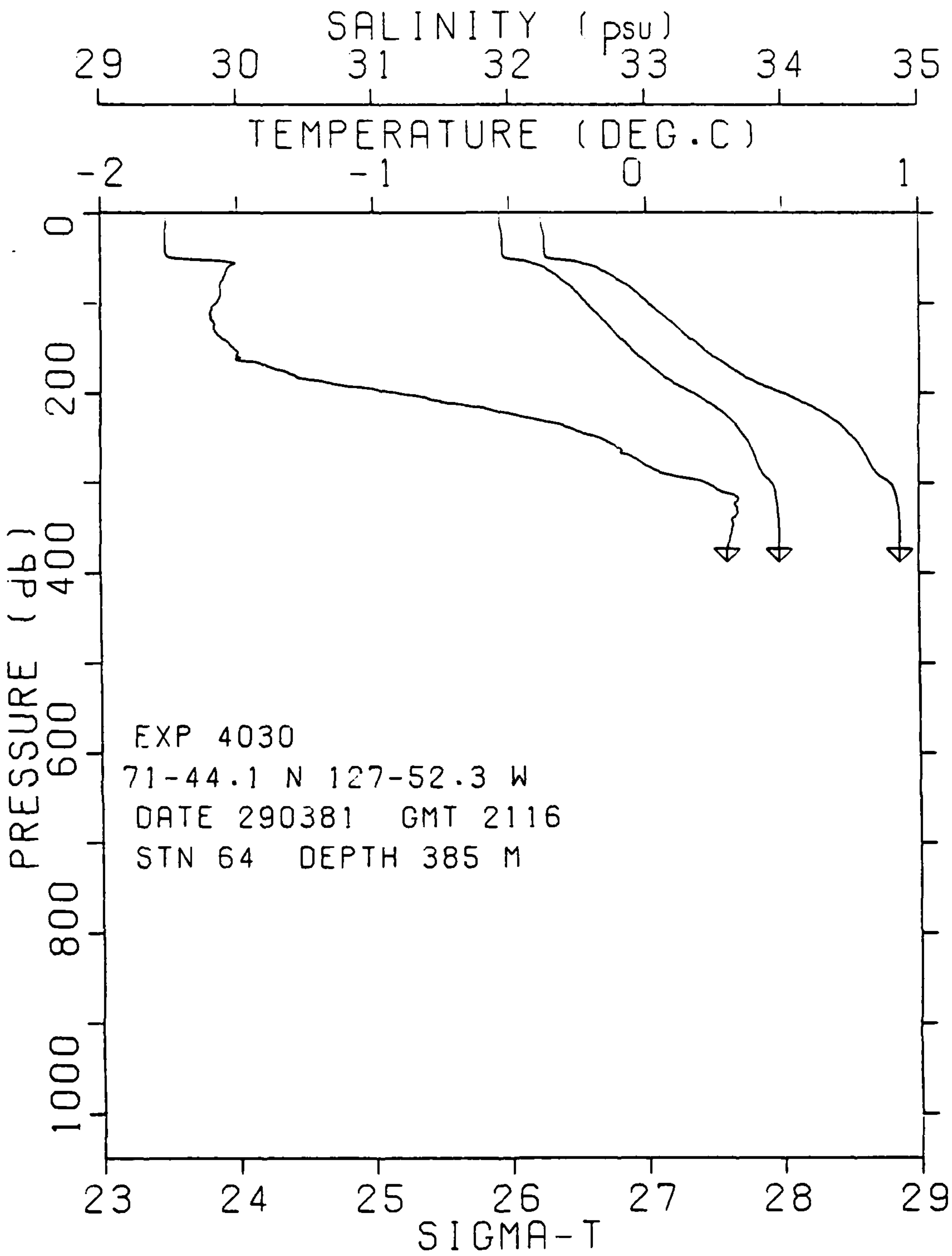
SIGMA-T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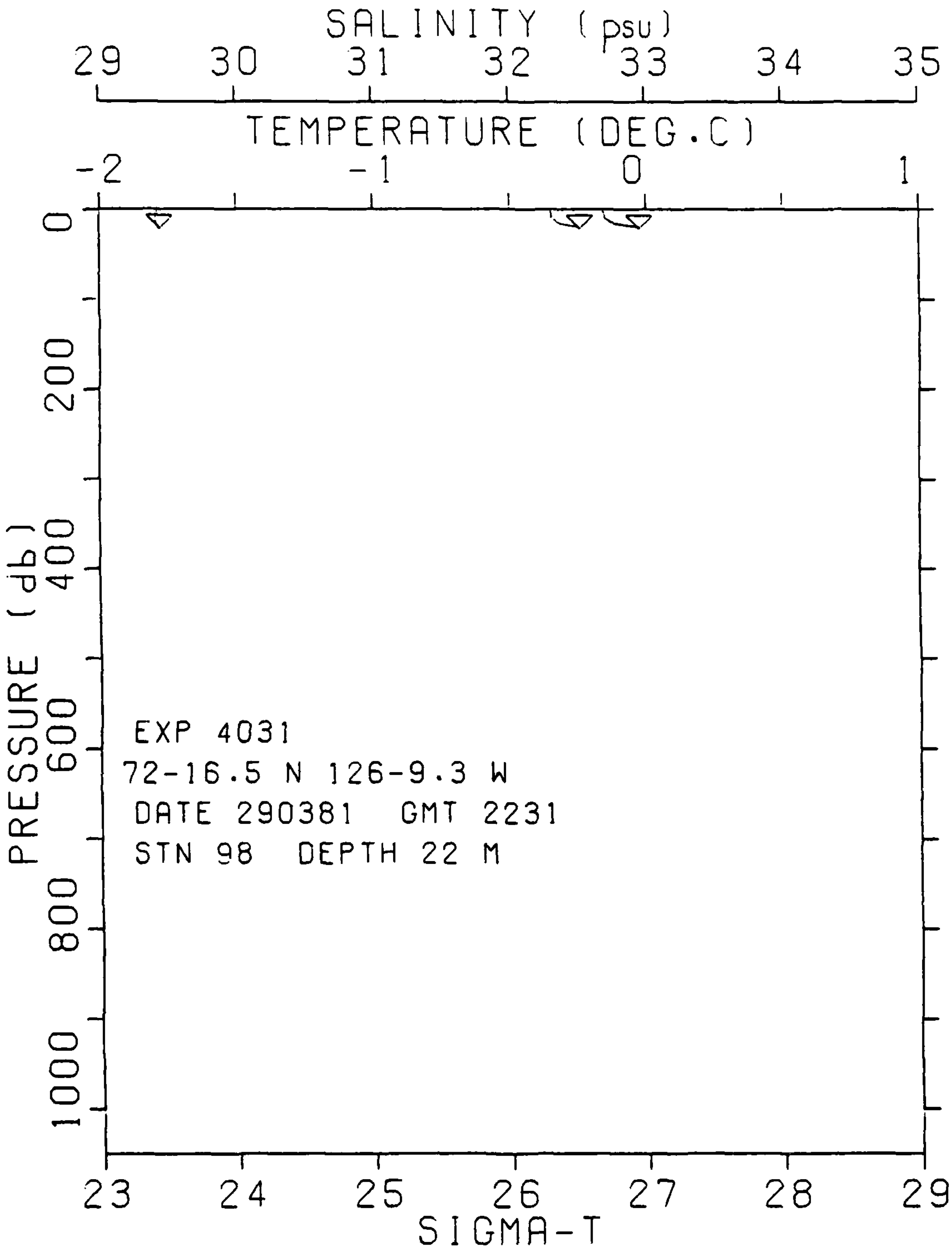
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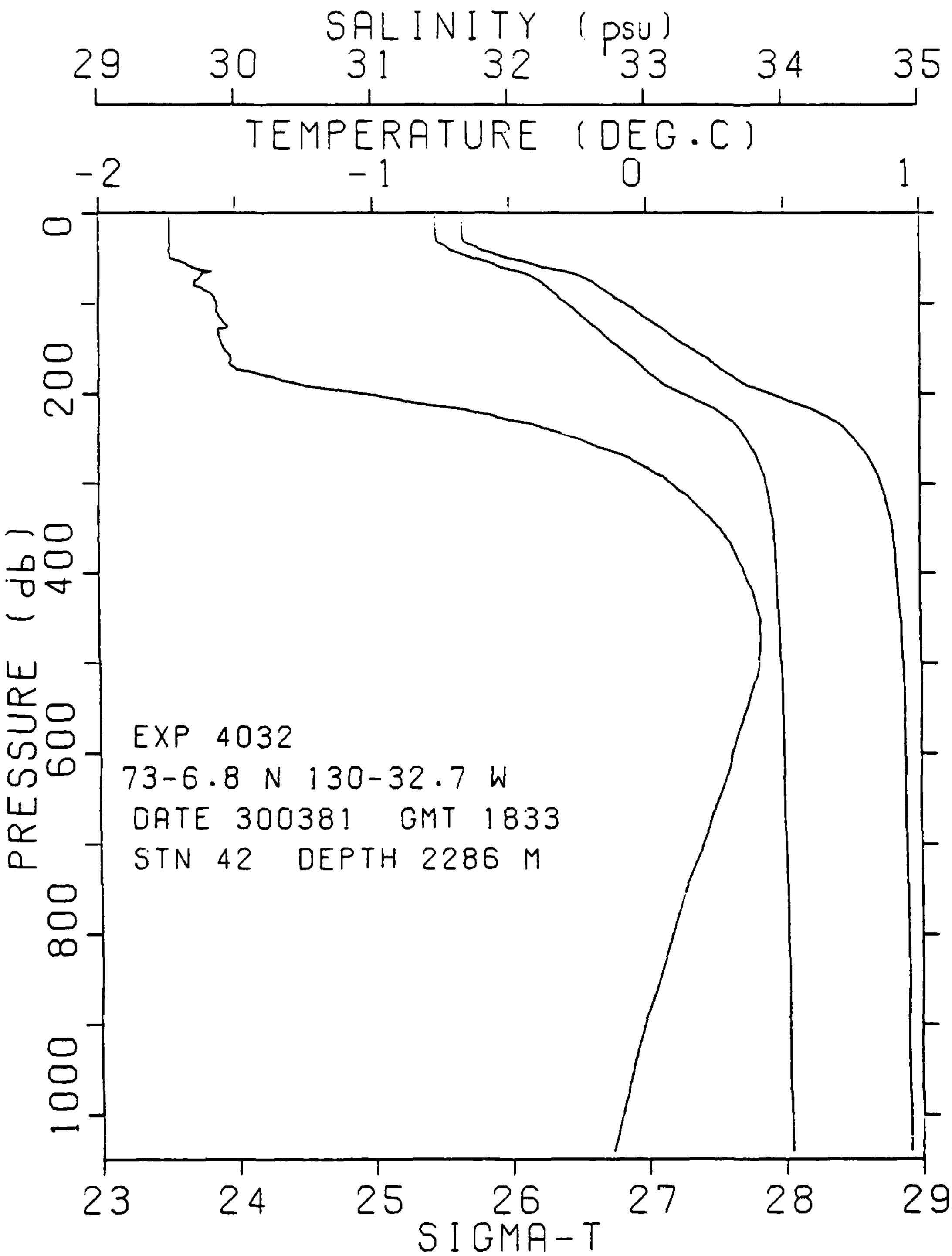
SIGMA-T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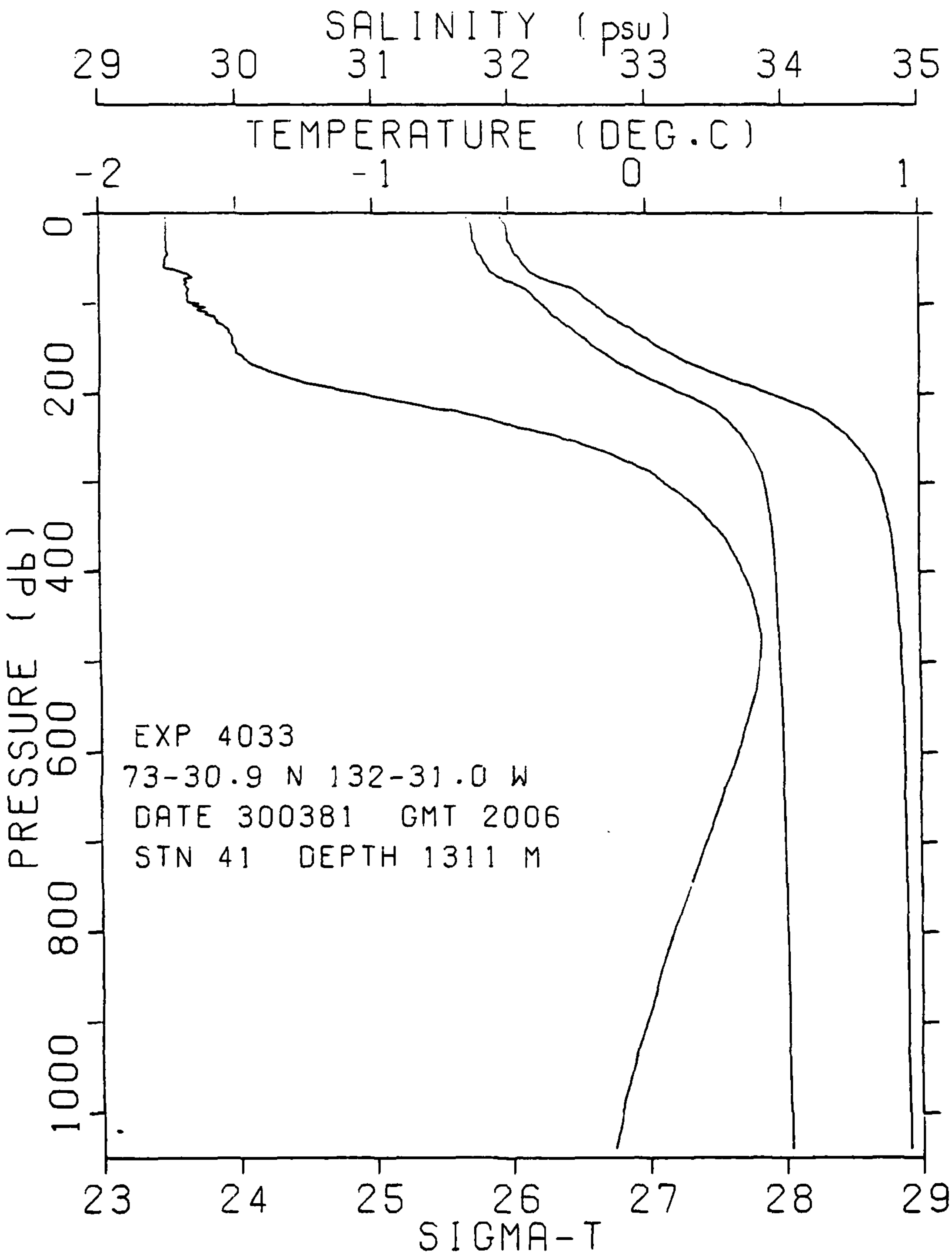
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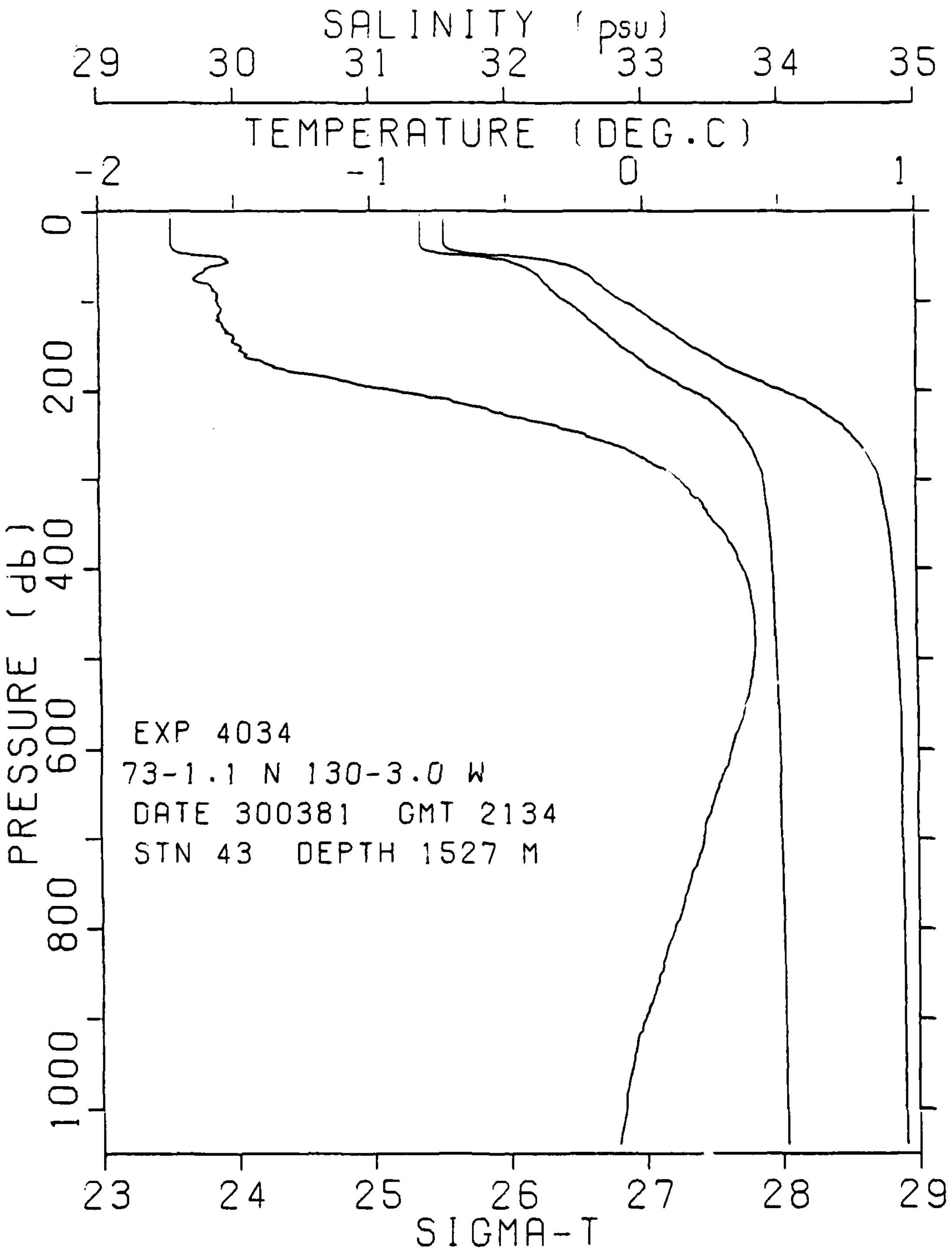
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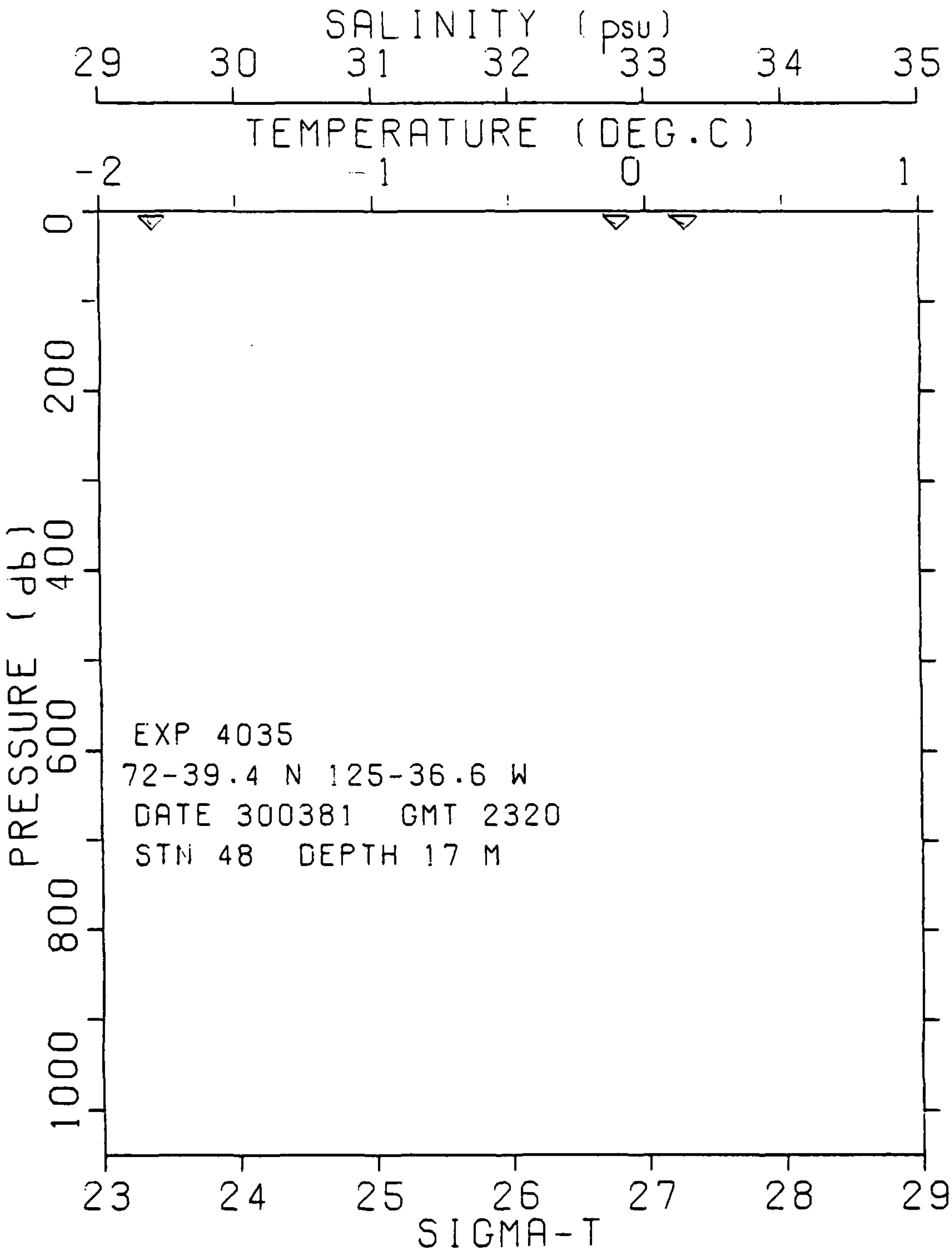
SIGMA-T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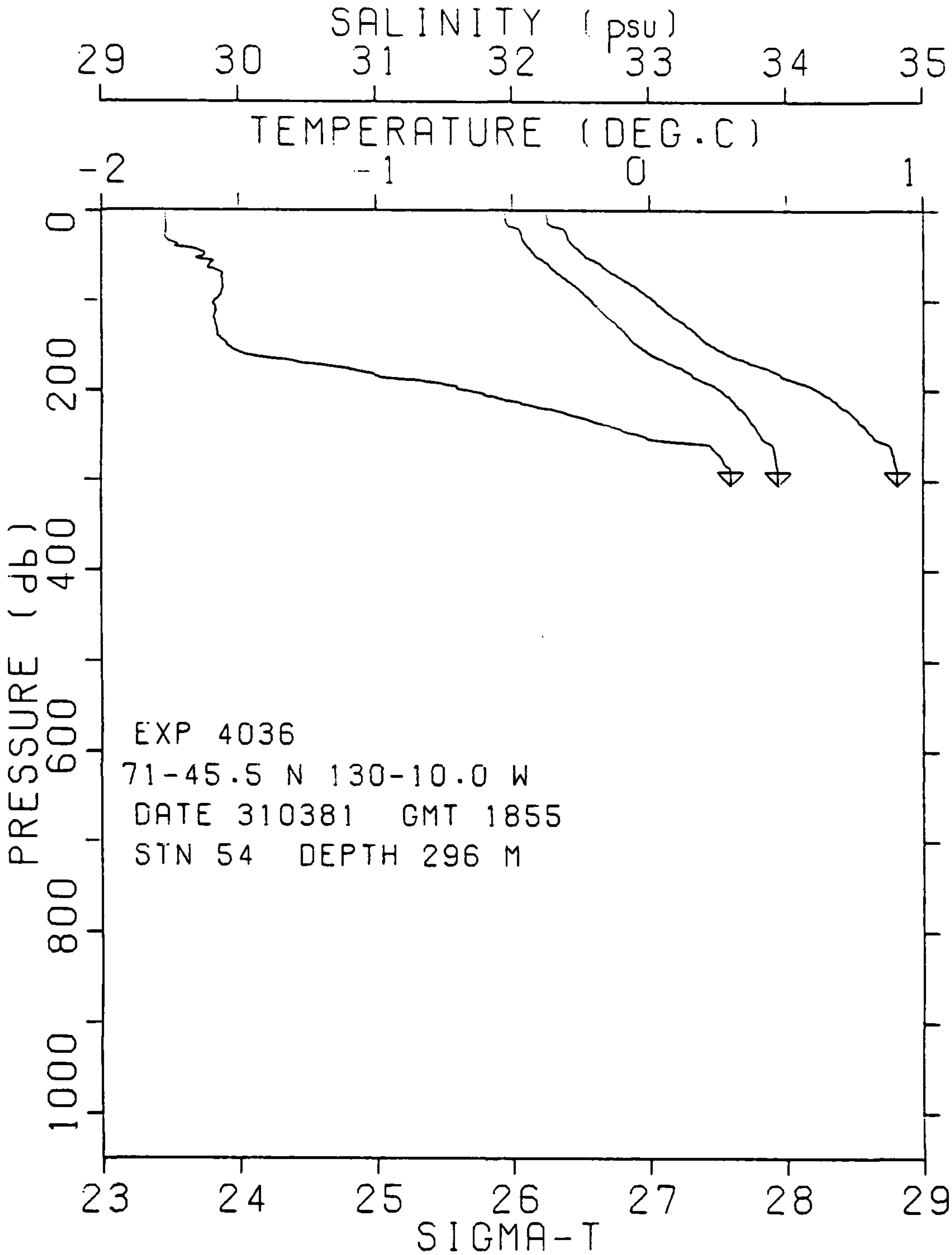
SIGMA-T



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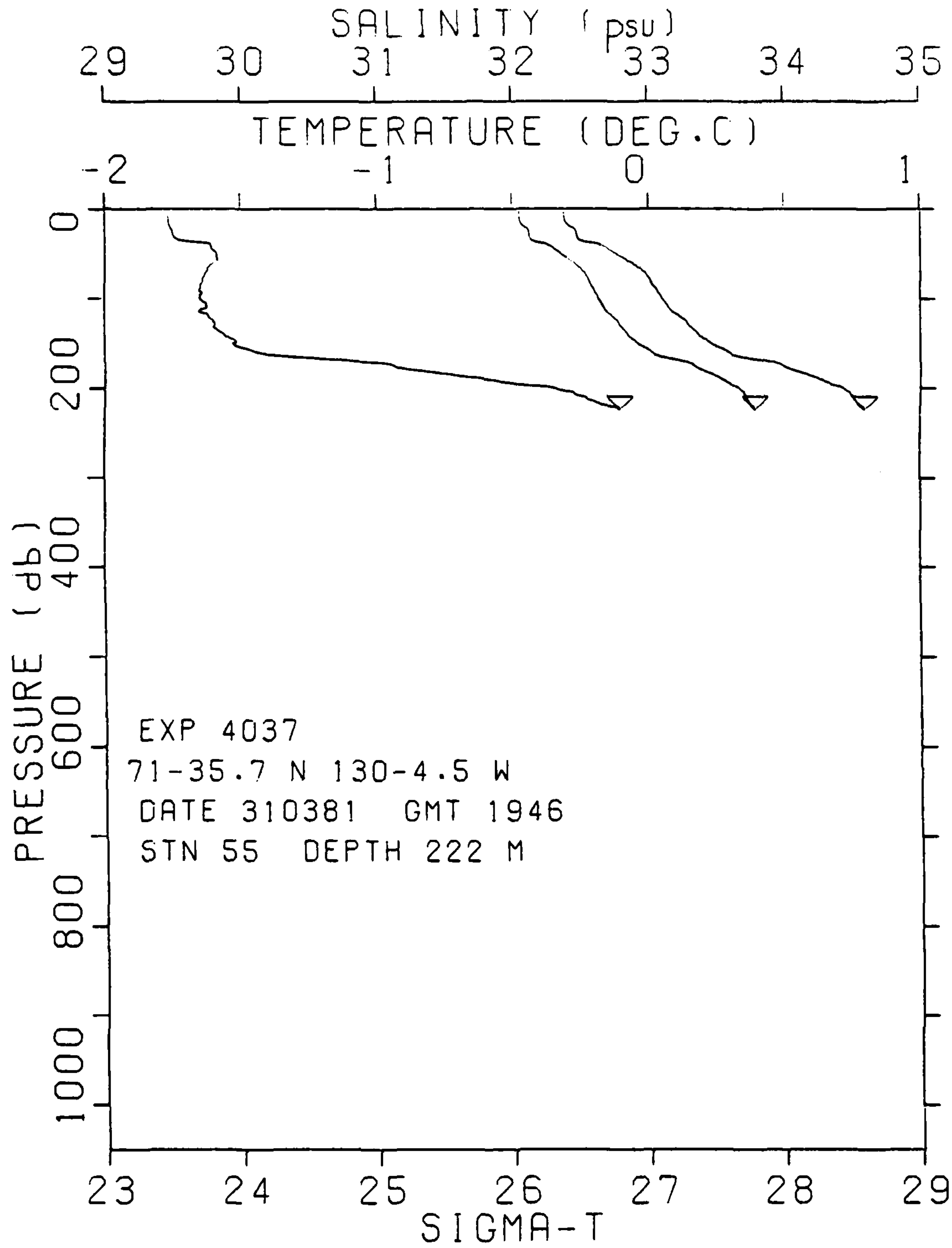
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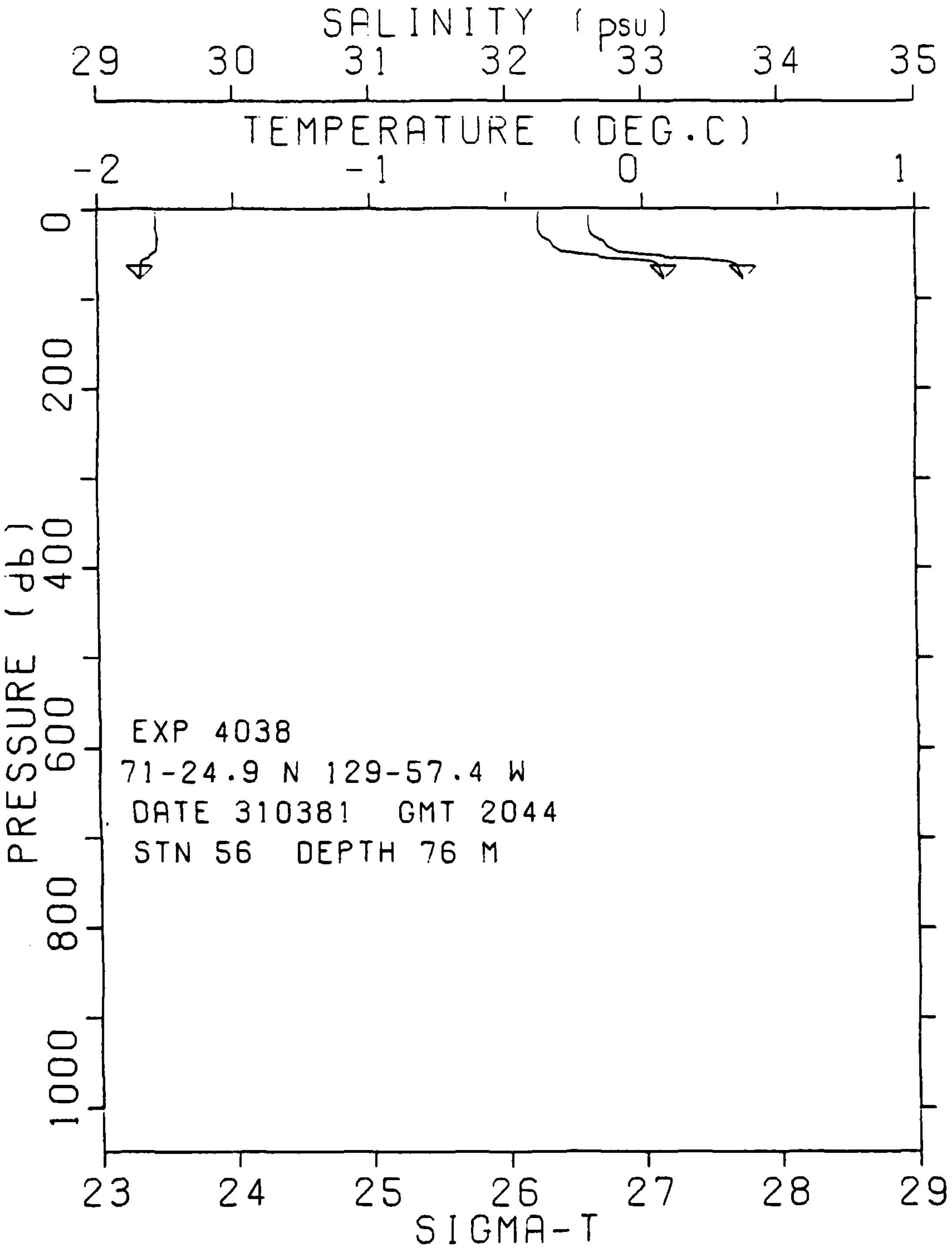
SIGMA-T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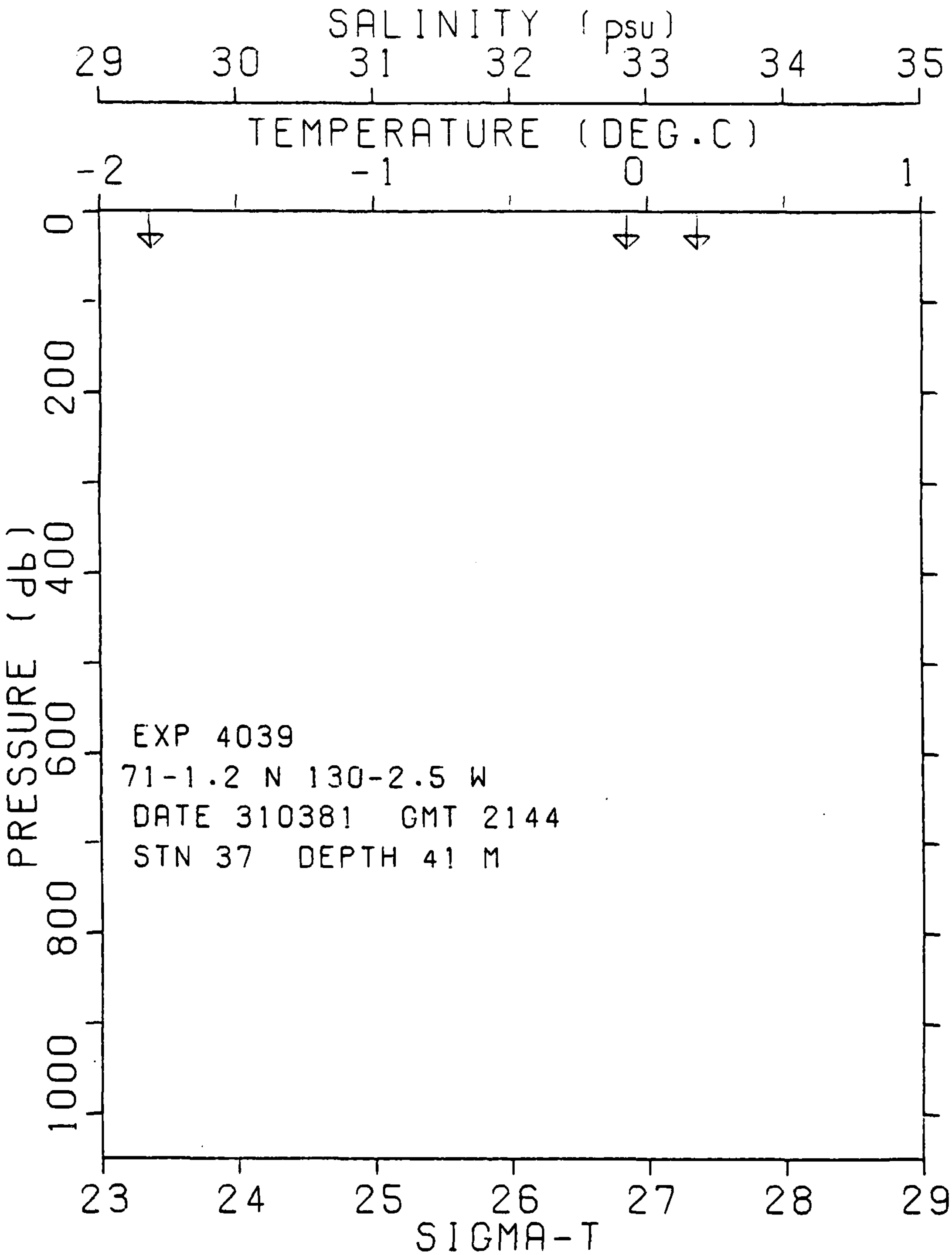
SIGMA-T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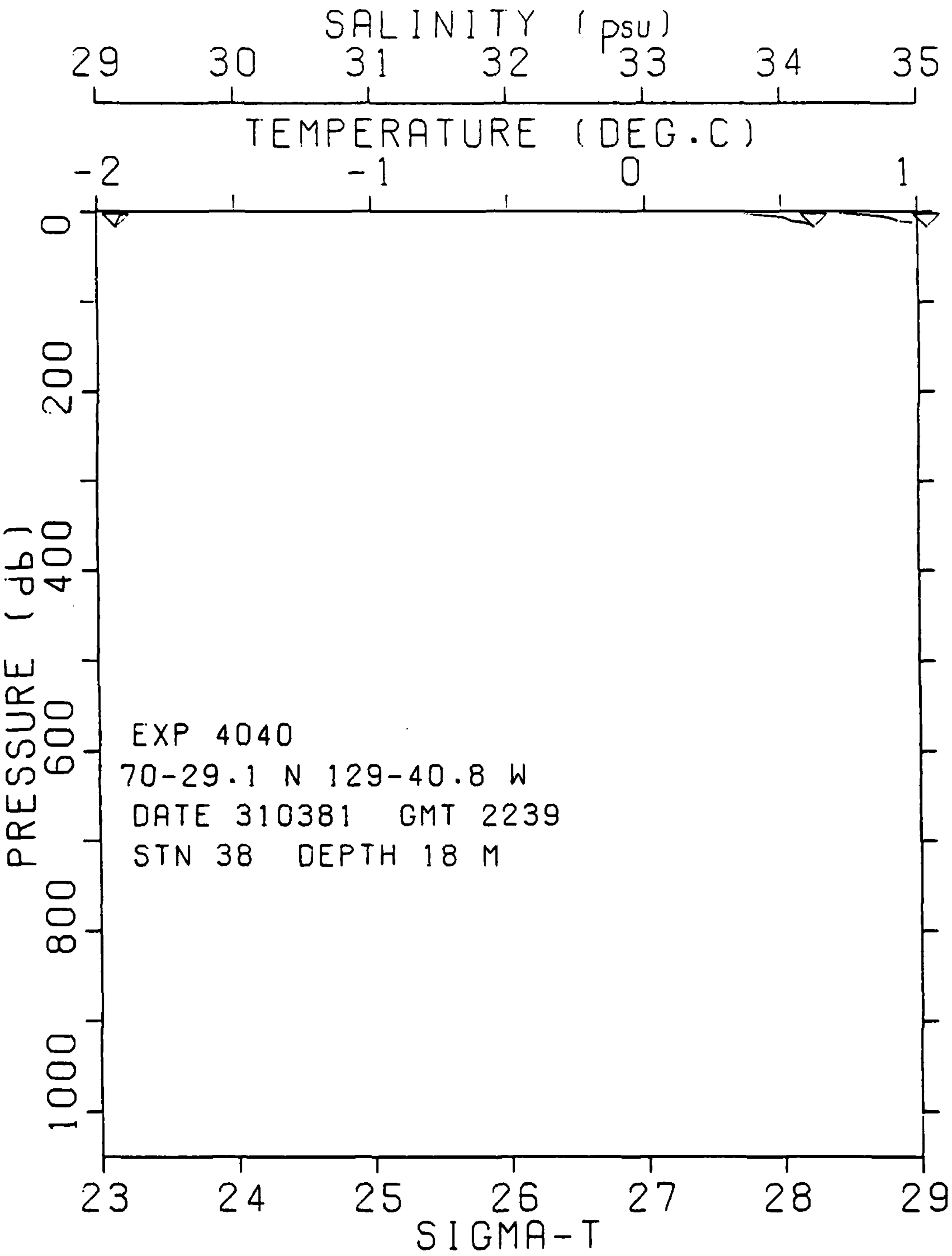
SIGMA-T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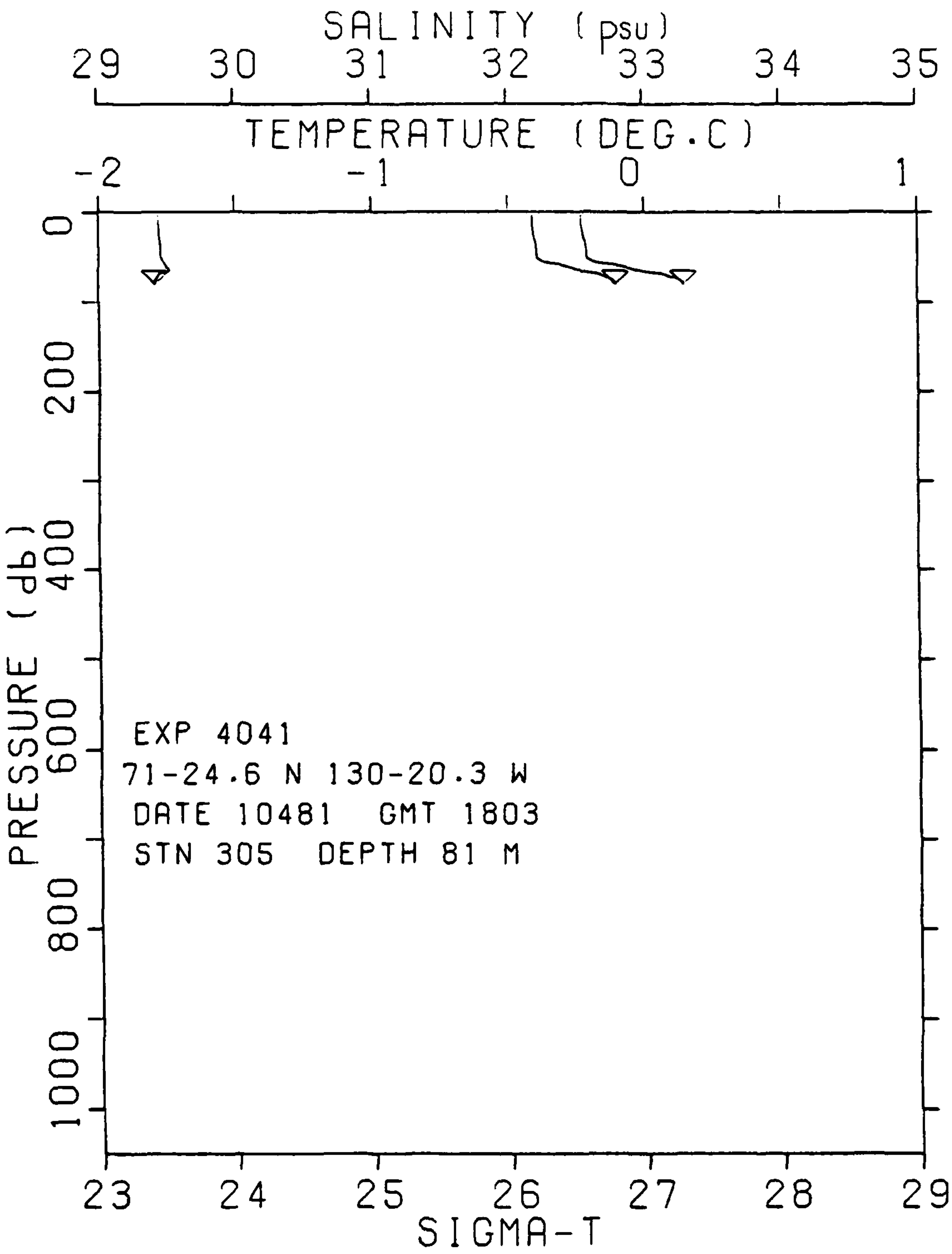
SIGMA-T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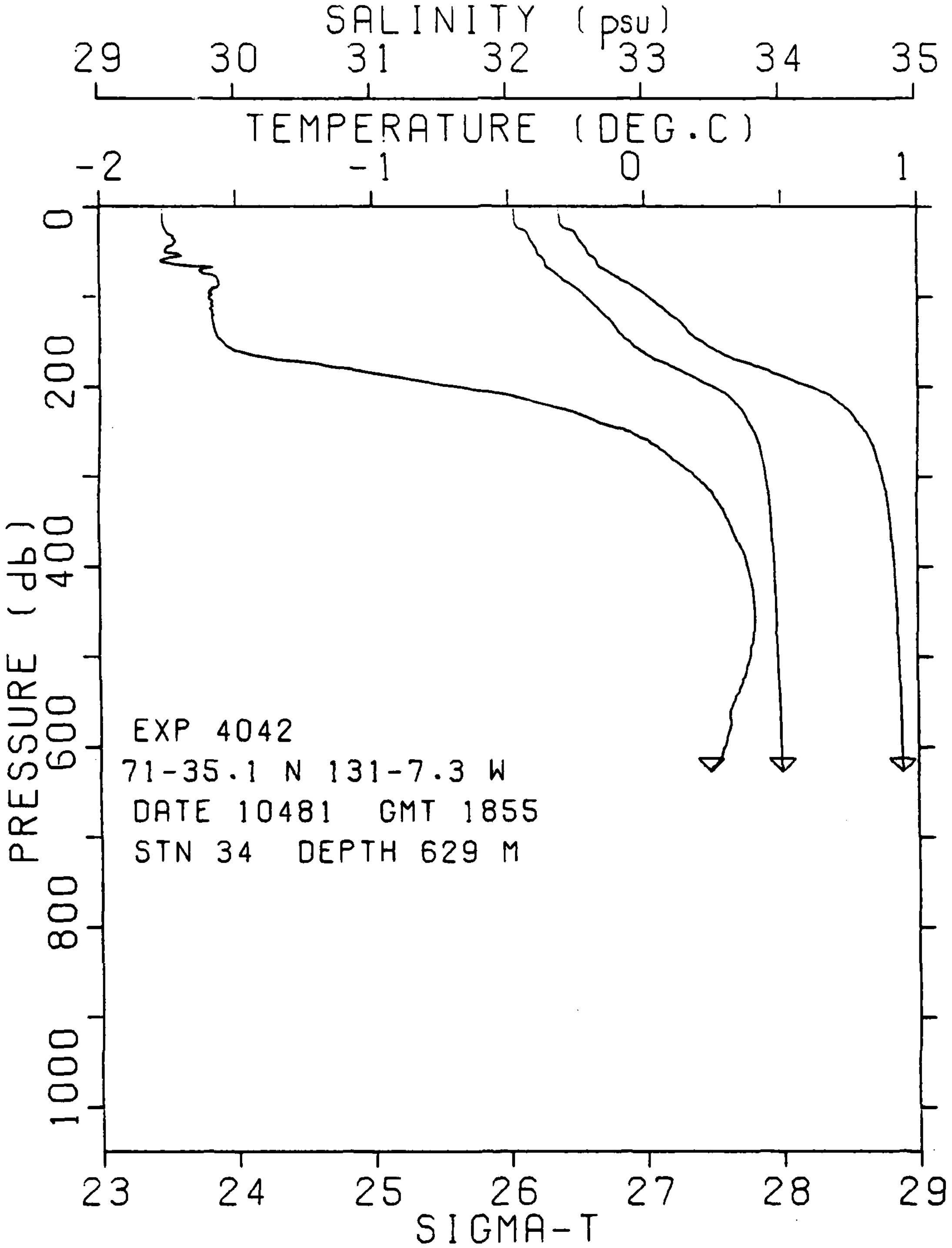
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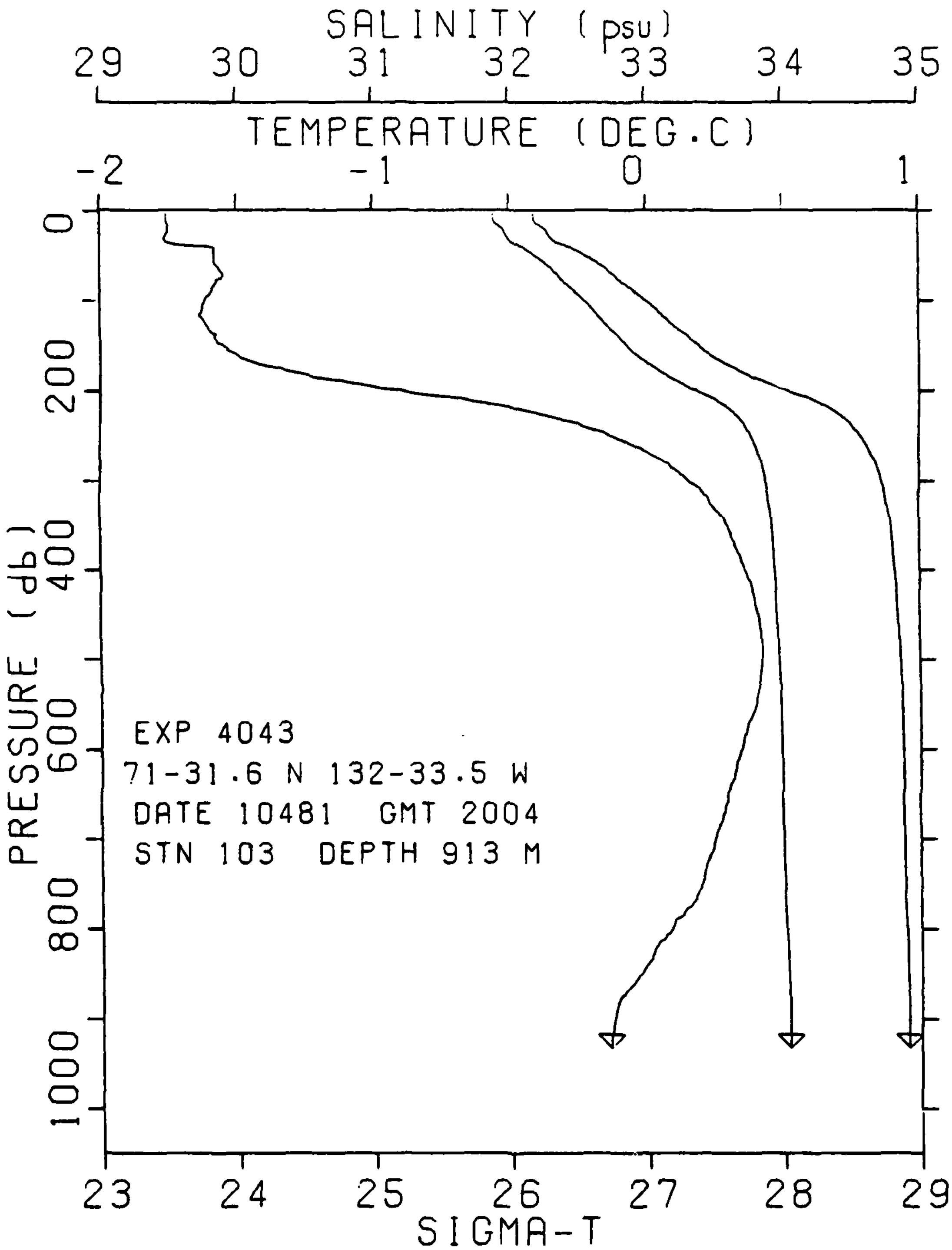
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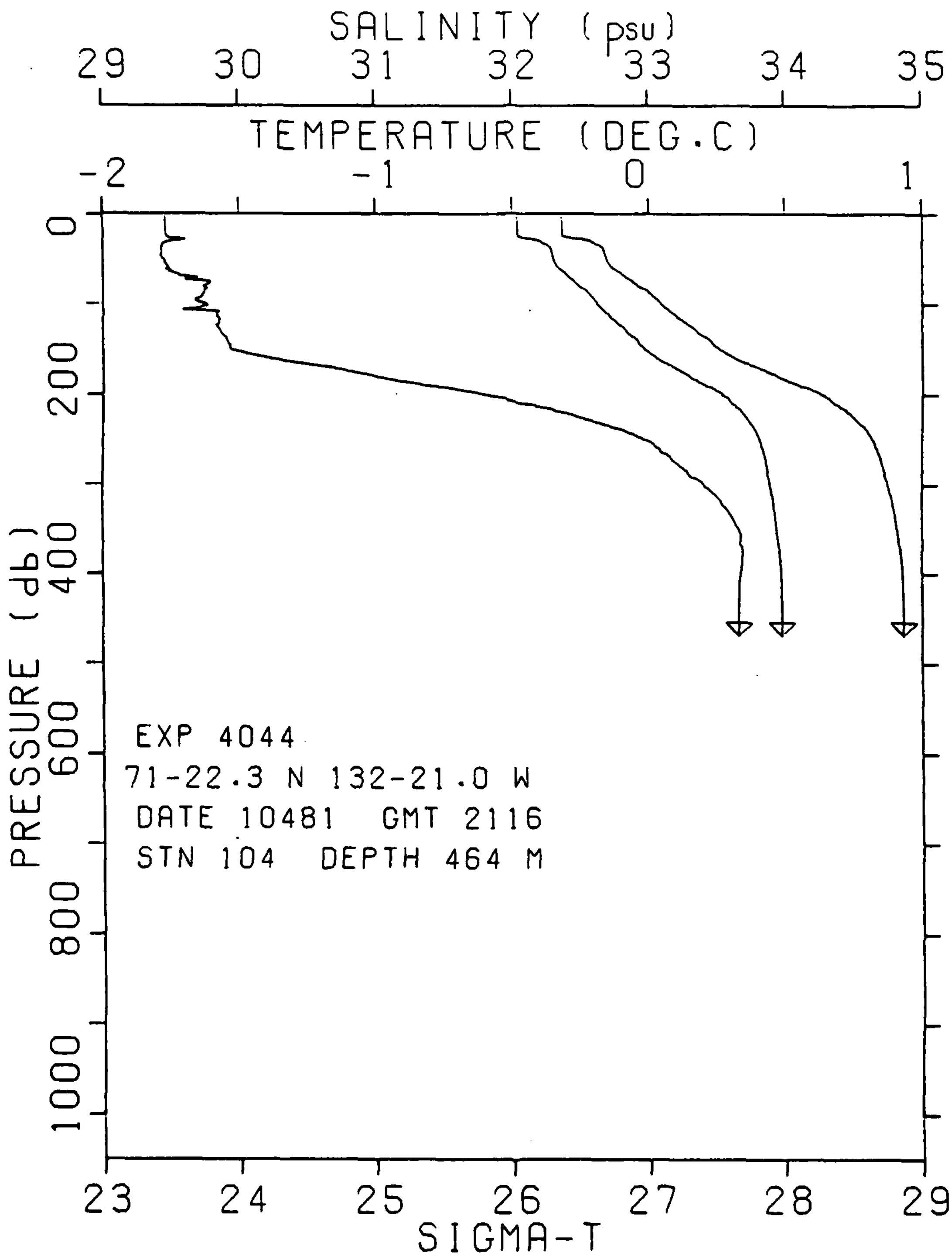
SIGMA-T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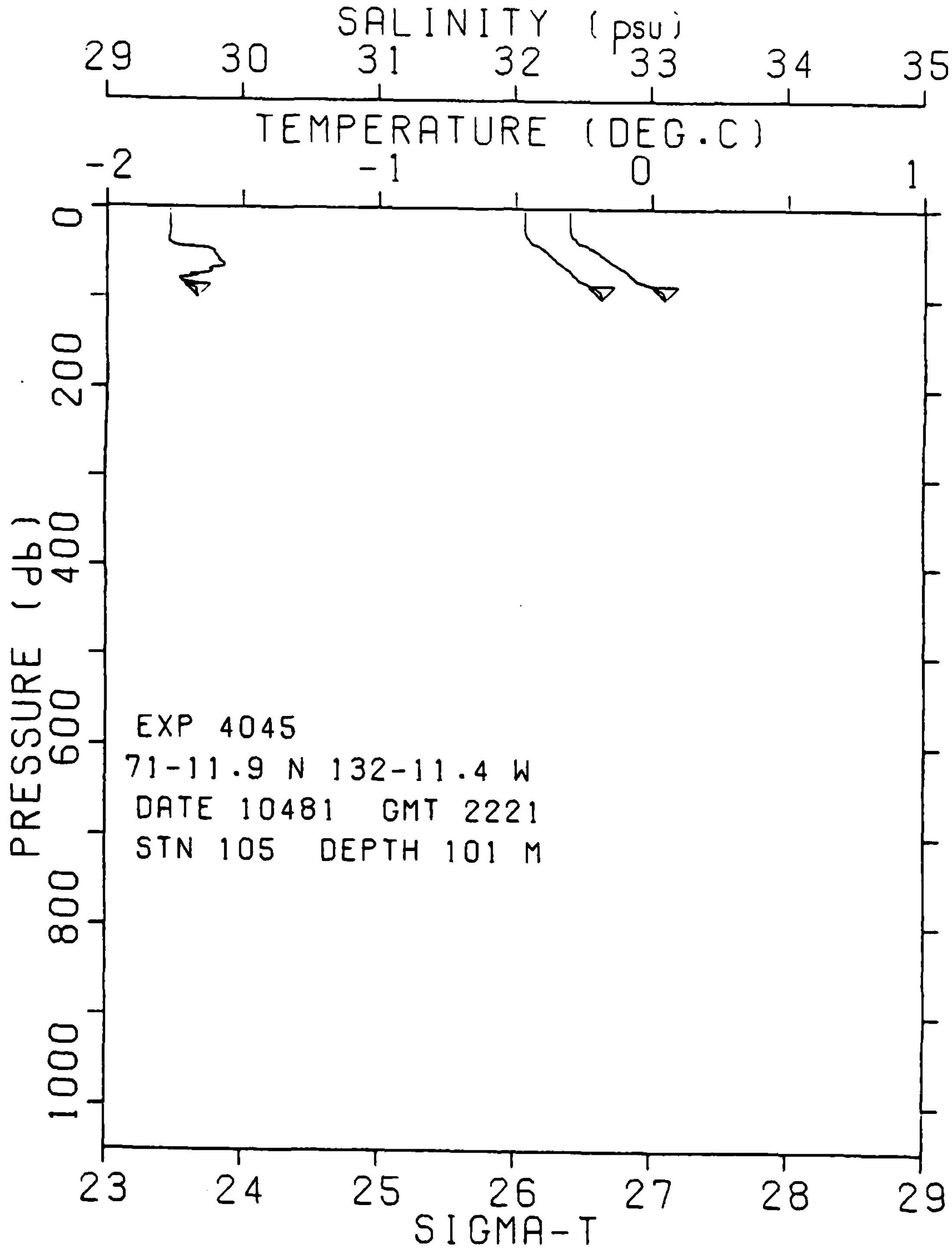
SIGMA-T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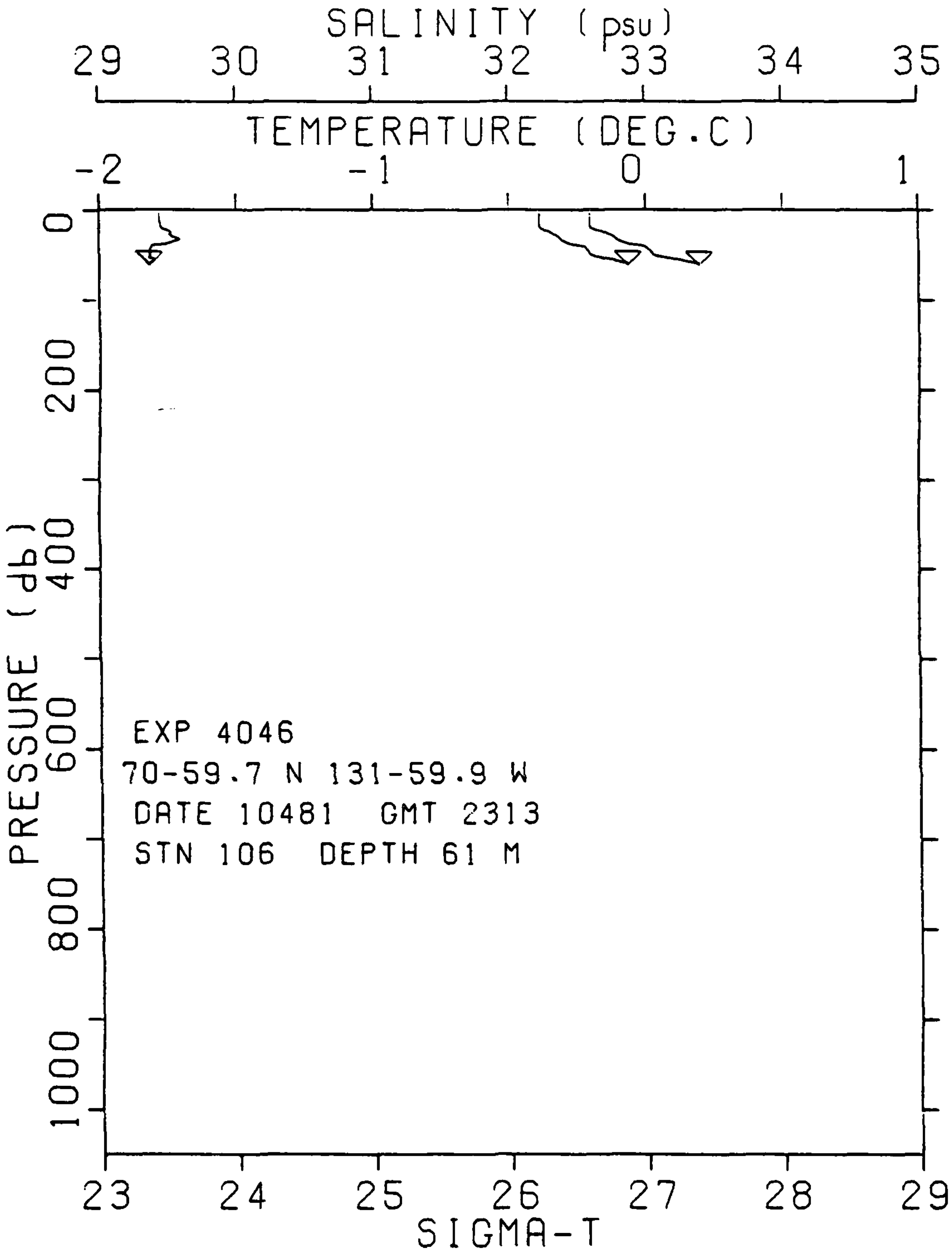
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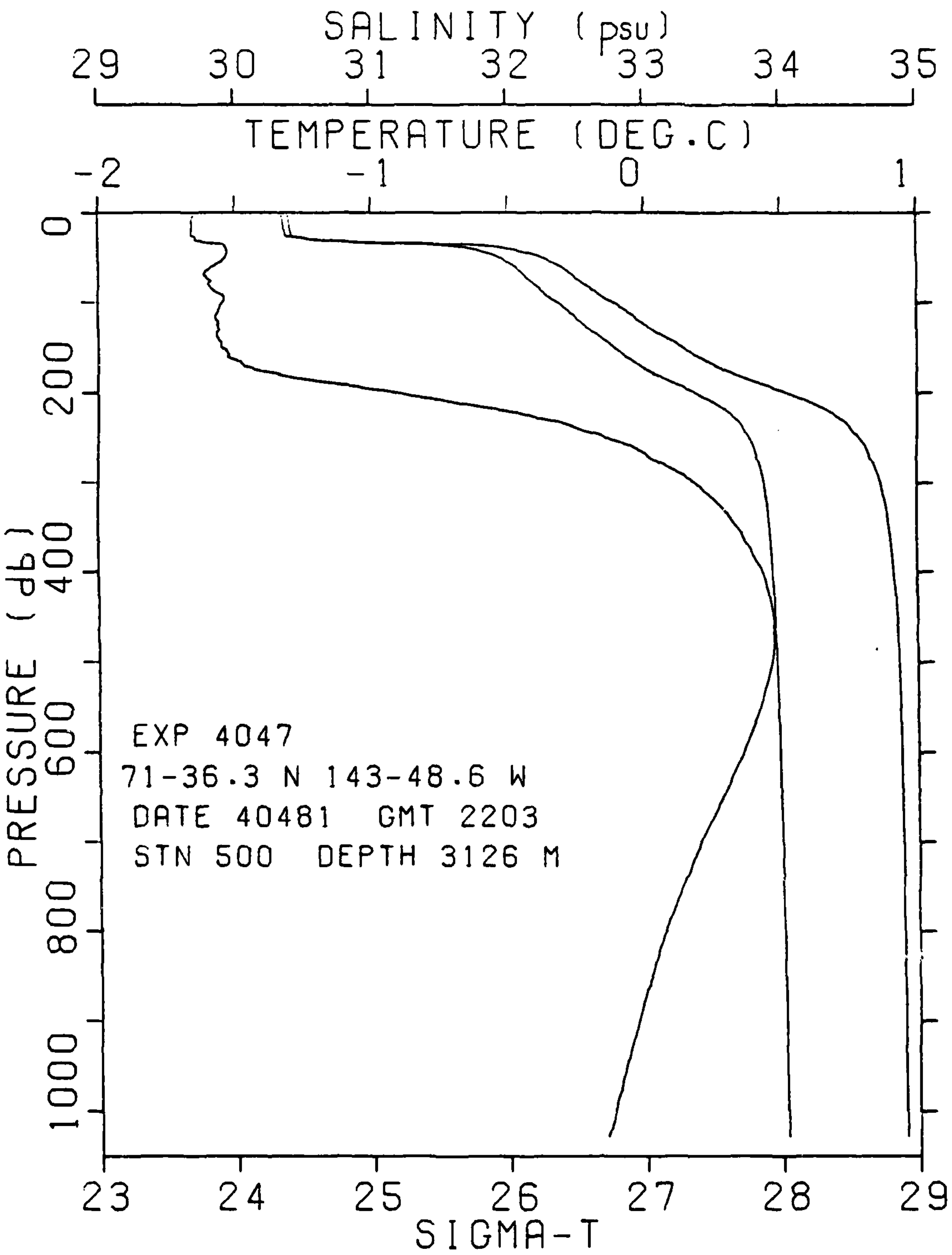
SIGMA-T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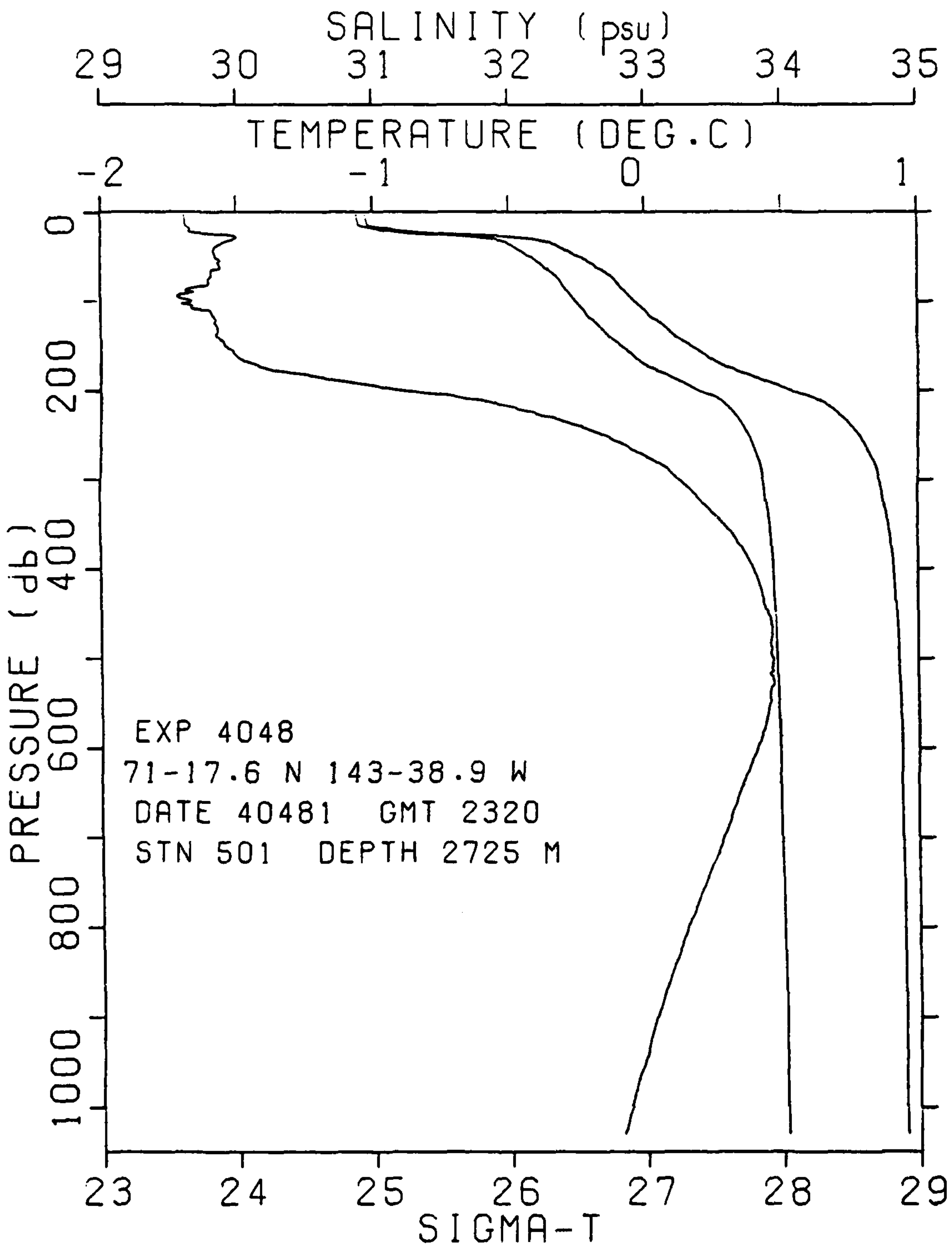
SIGMA-T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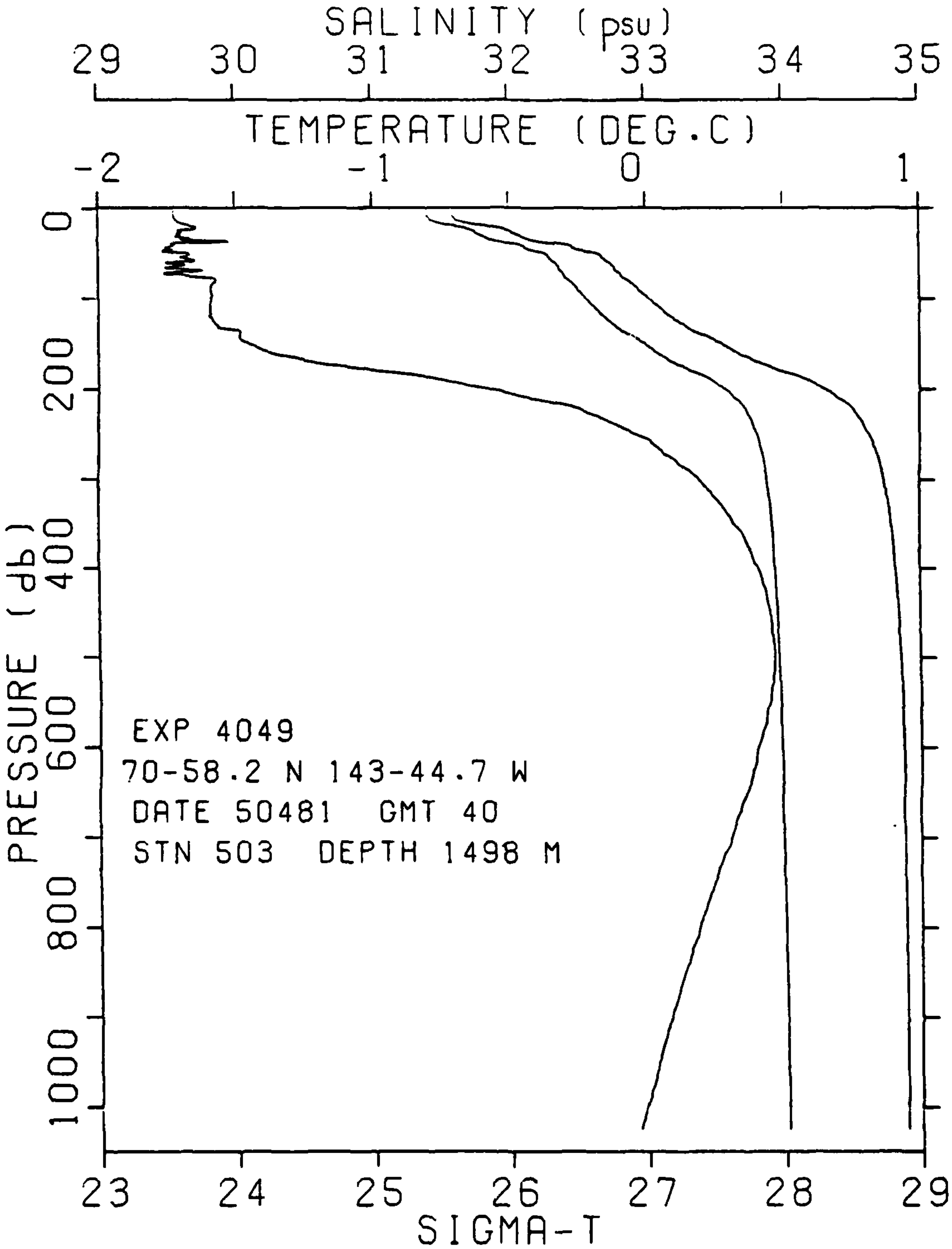
SIGMA-T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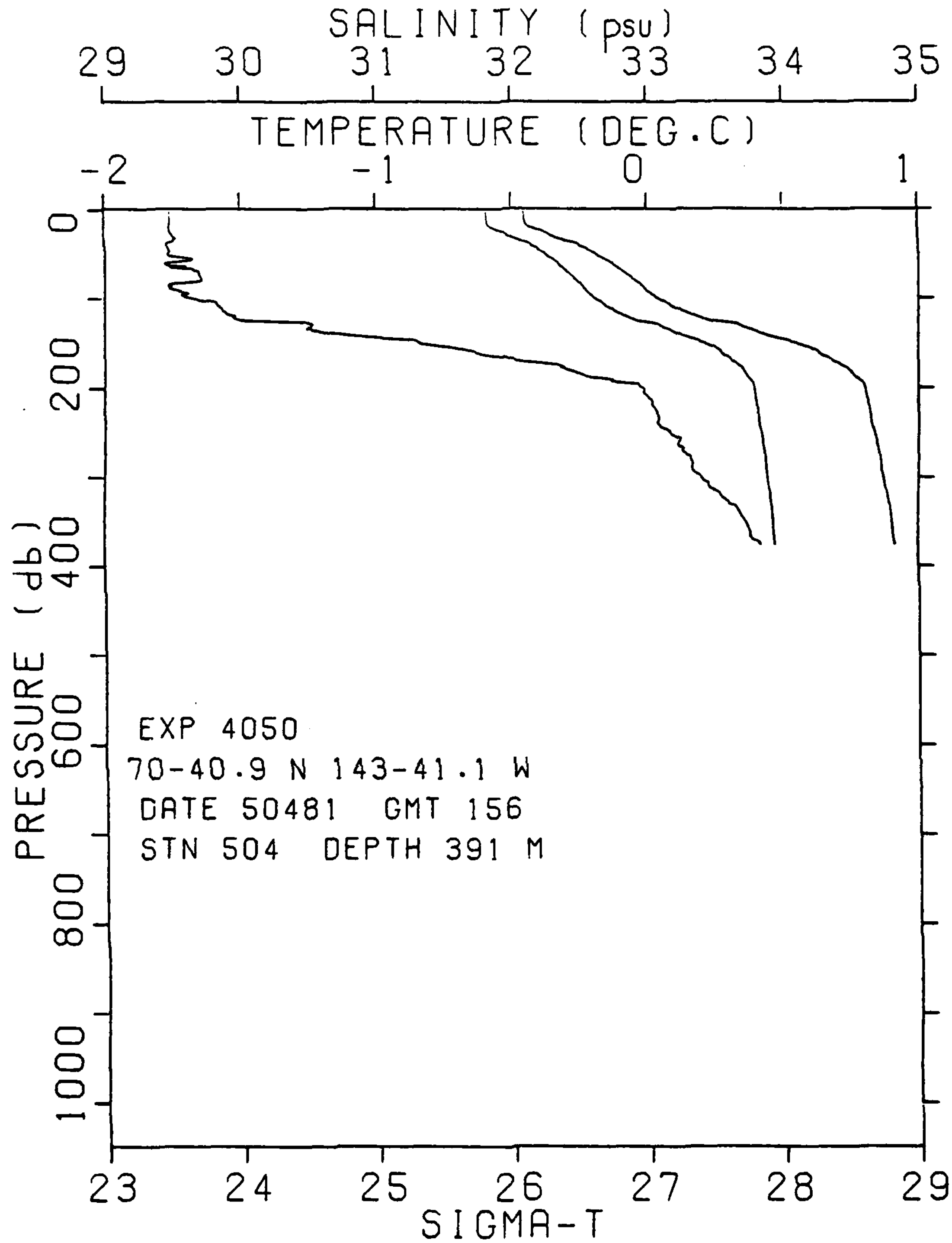
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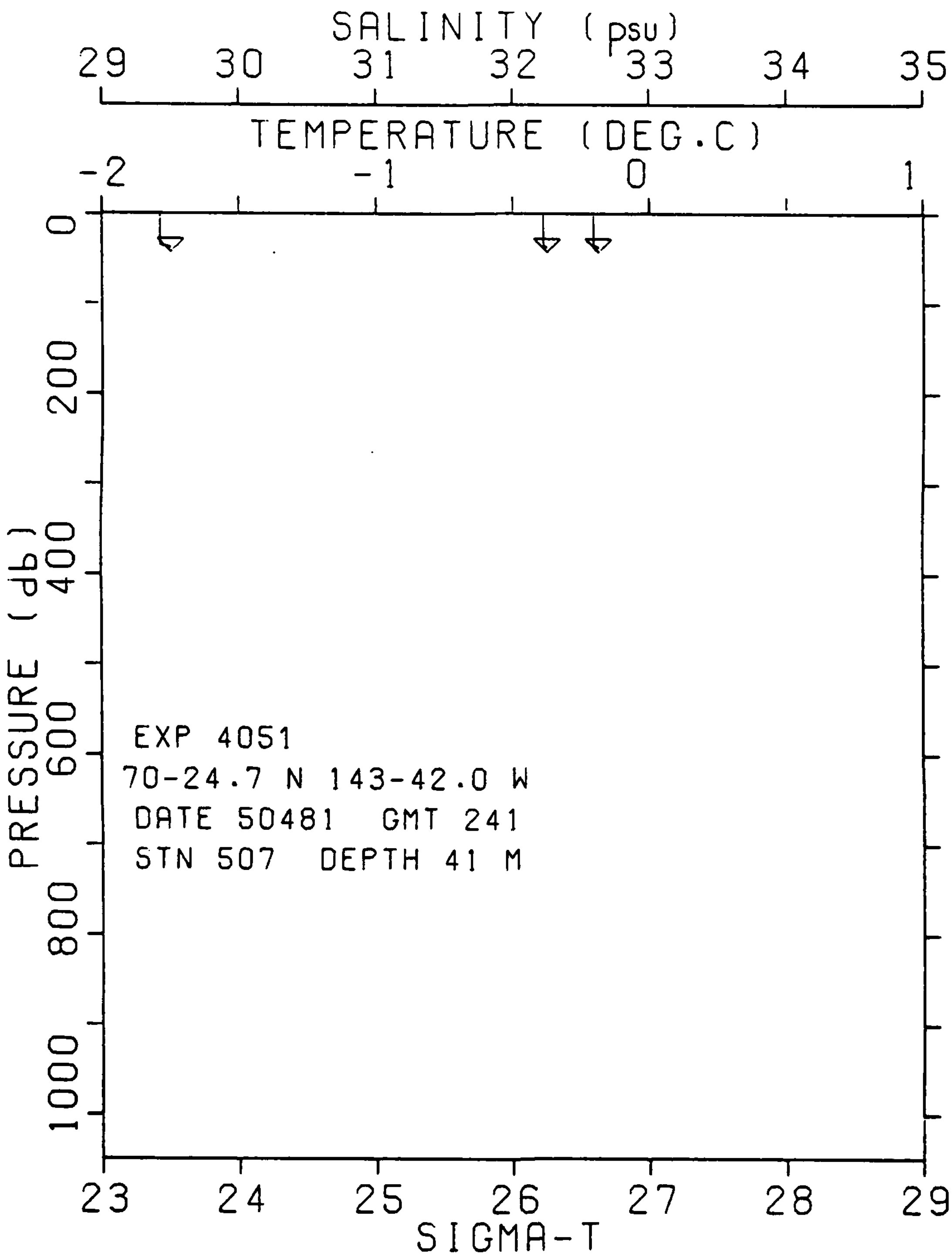
SIGMA-T



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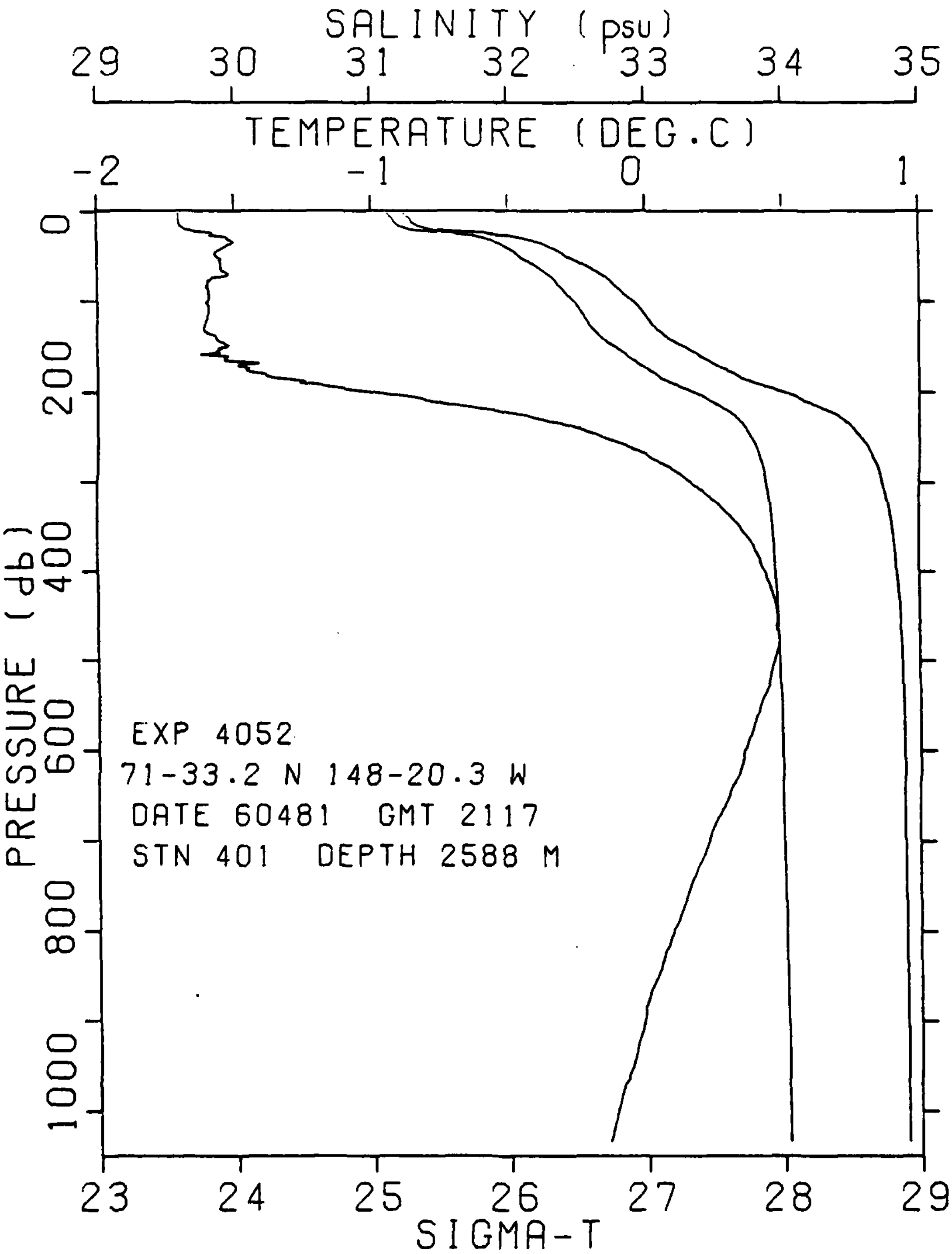
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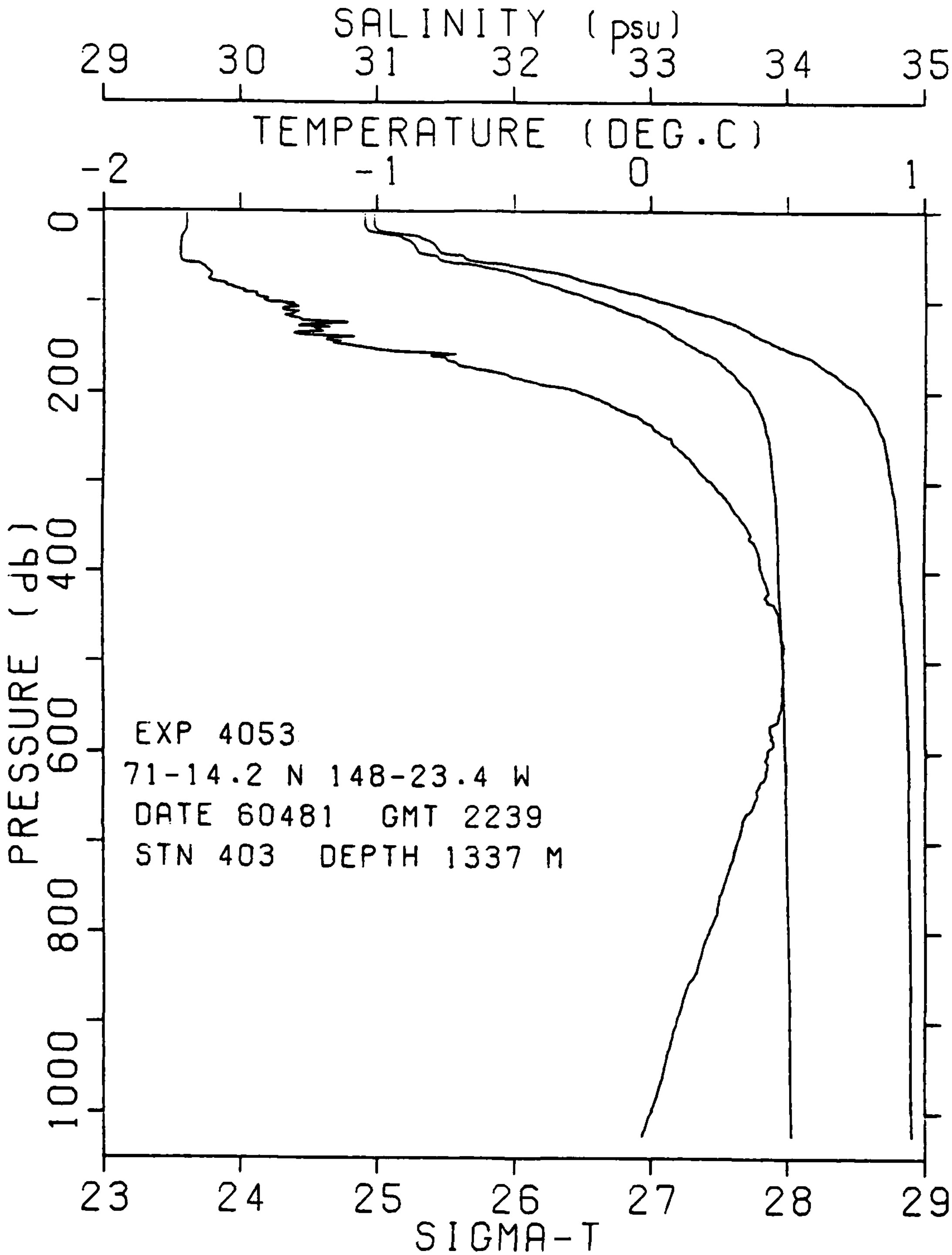
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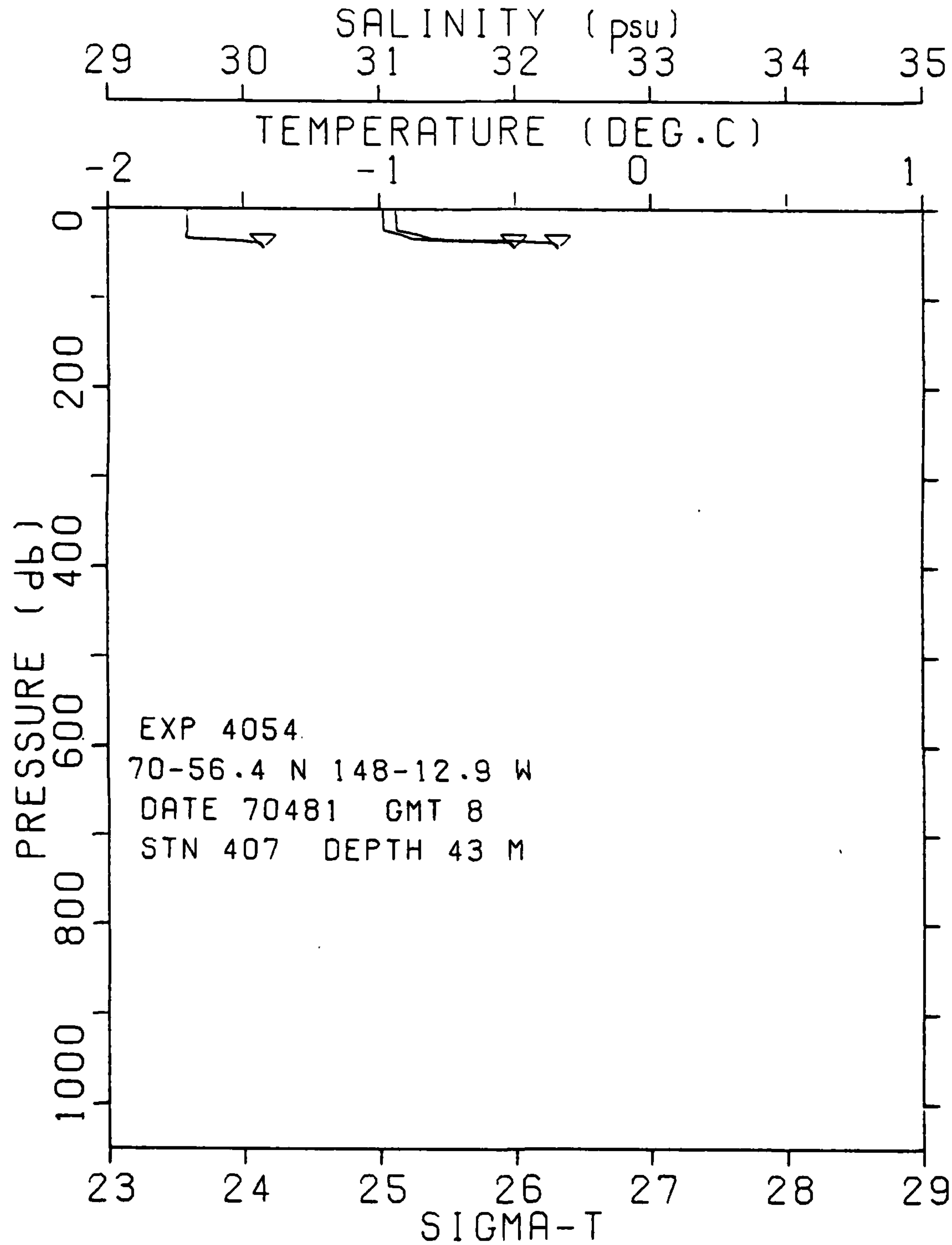
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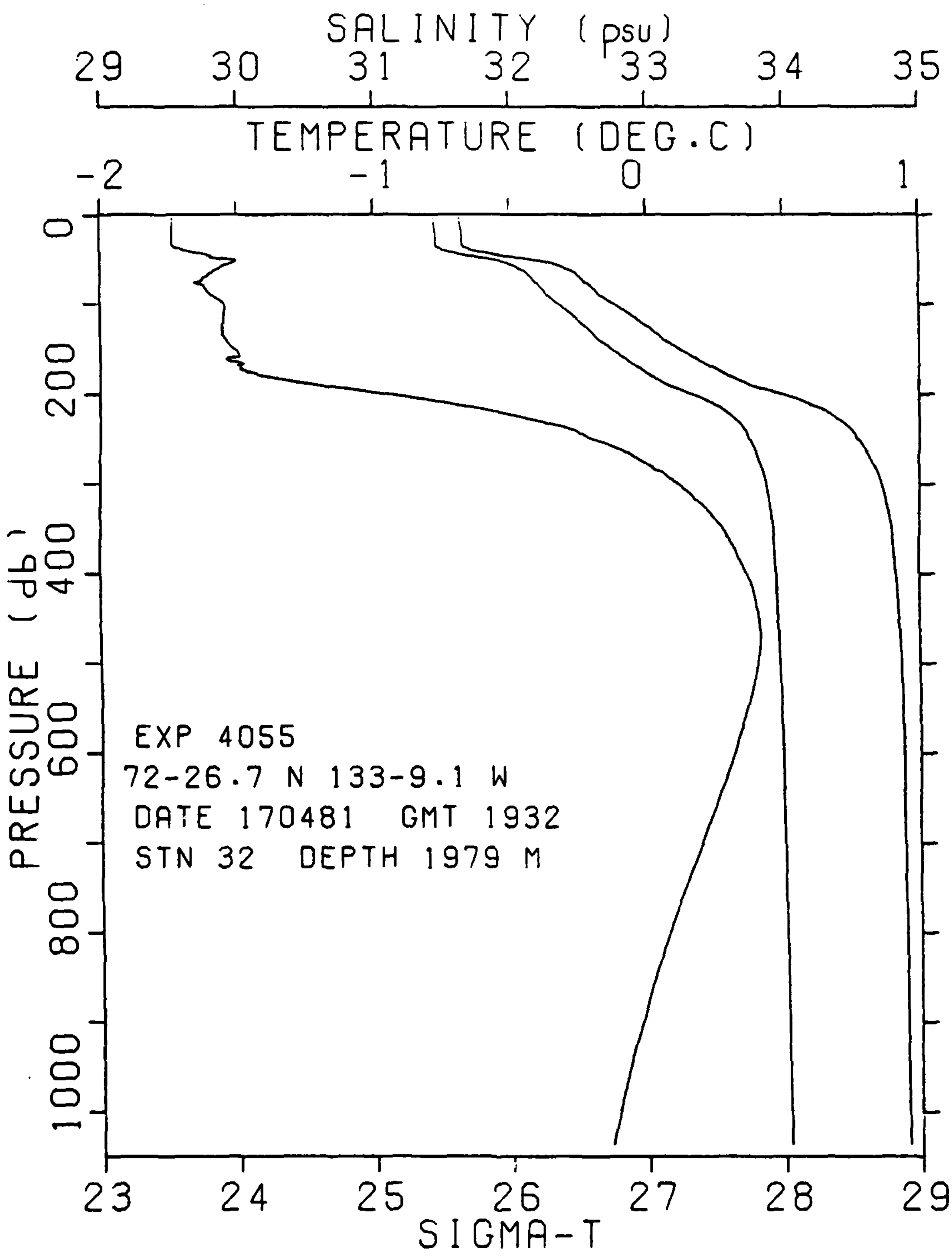
SIGMA-T



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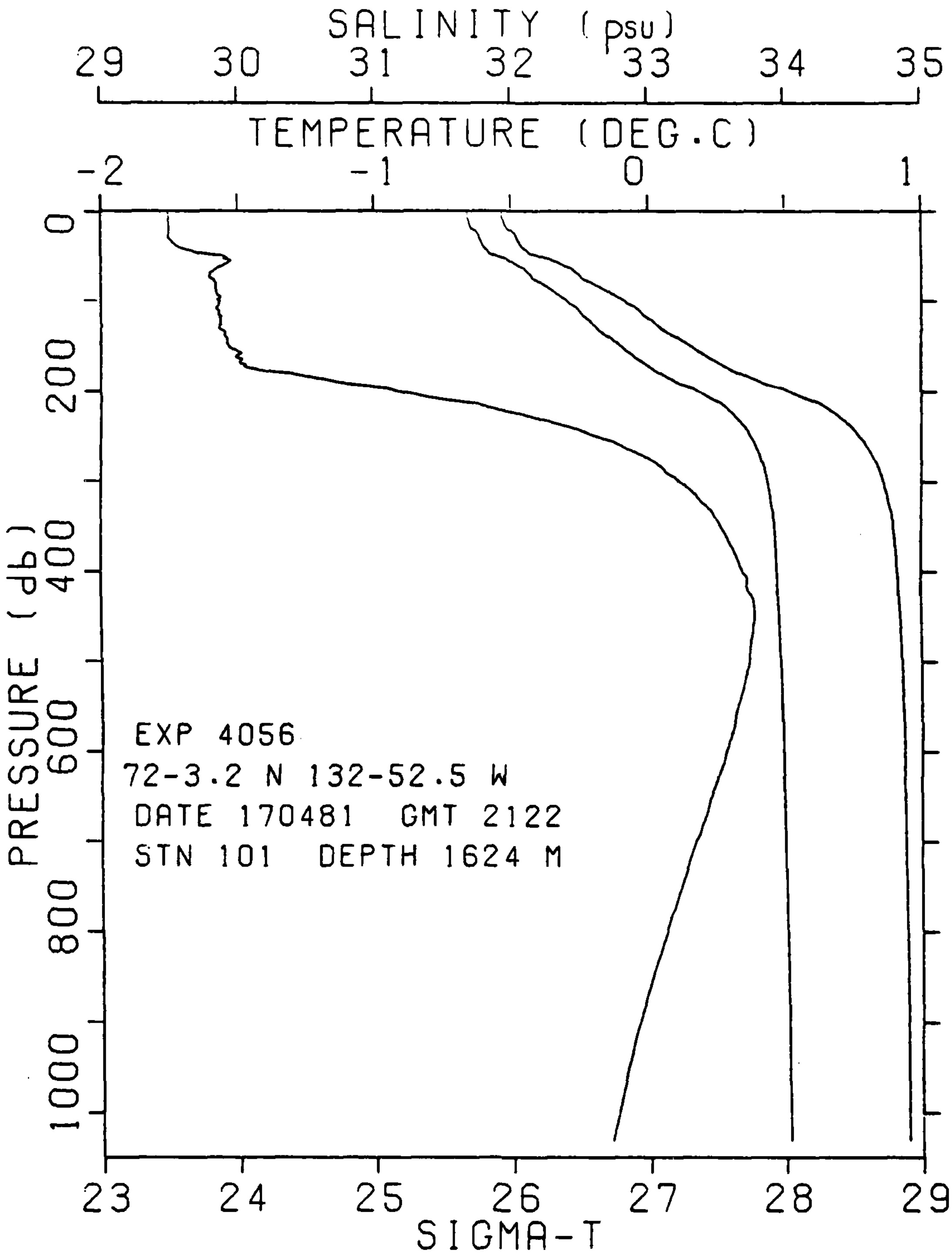
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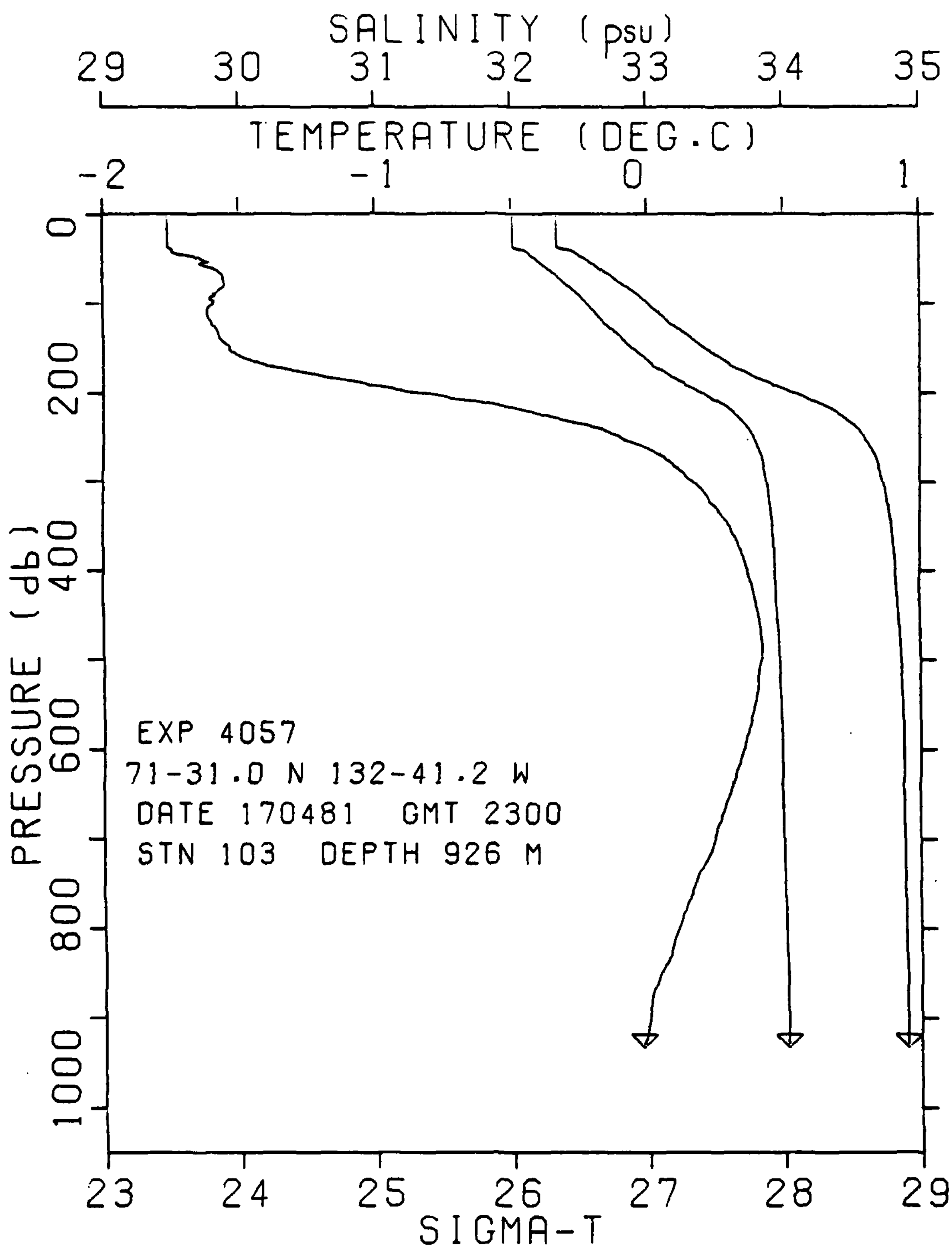
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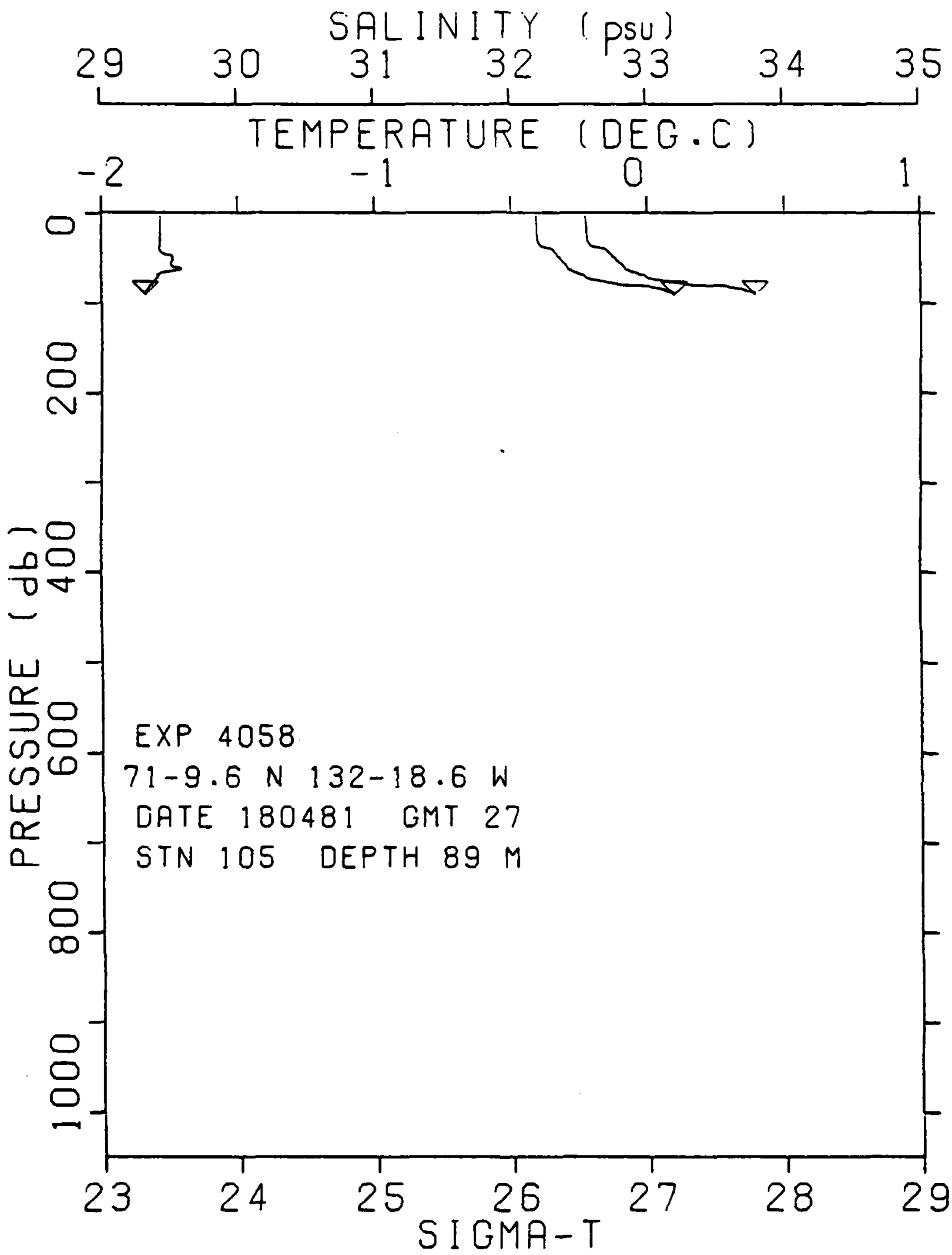
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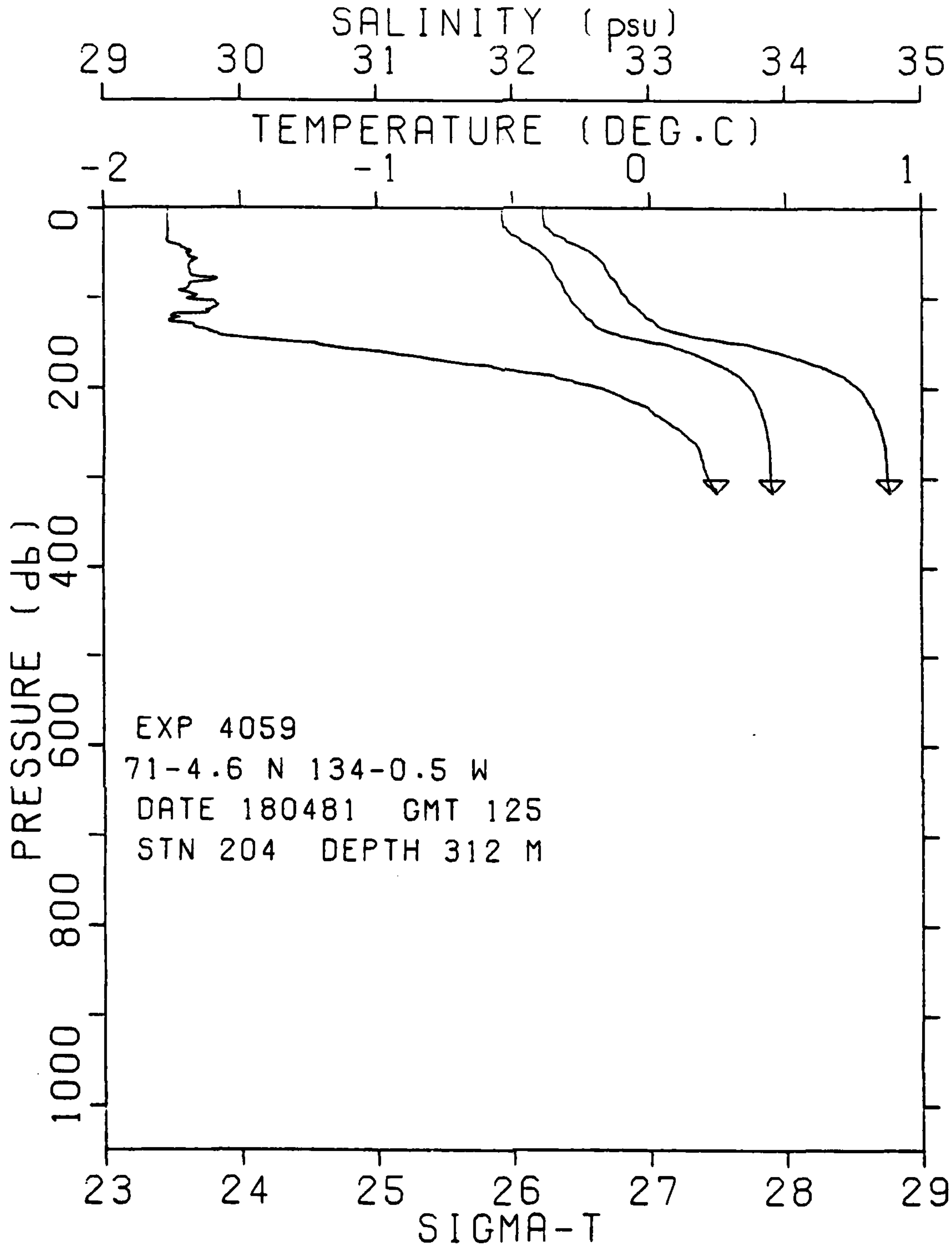

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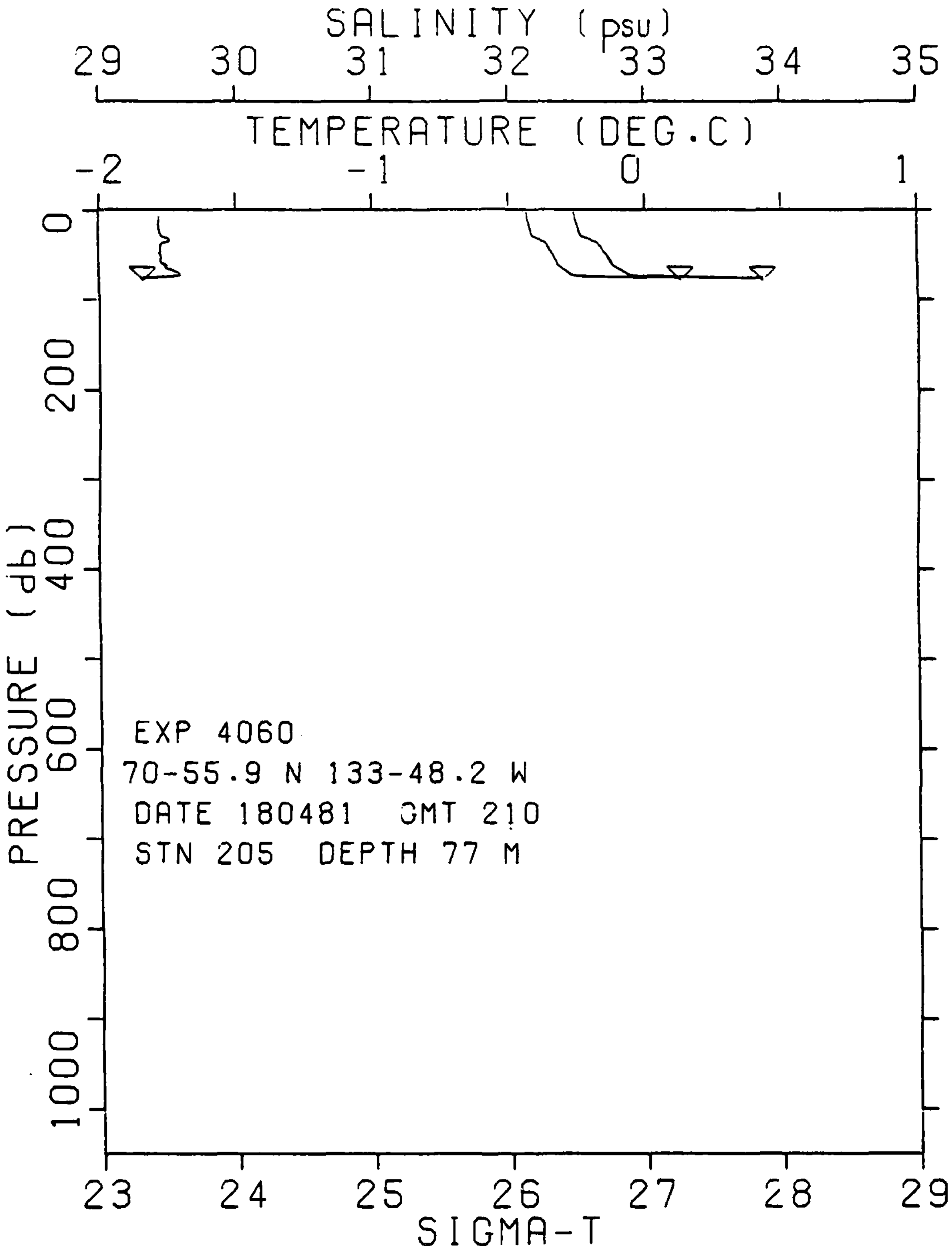
SIGMA-T



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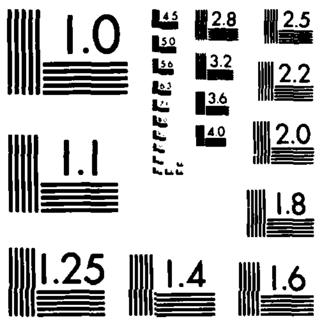
DATE 180481 GMT 210
STN 205 DEPTH 77 M
23 24 25 26 27 28 29
SIGMA-T

AD-A145 197 ANALYSIS AND INTERPRETATION OF CURRENT MEASUREMENTS FROM THE BEAUFORT SEA(U) DOBROCKY SEATECH LTD SIDNEY (BRITISH COLUMBIA) P GREISMAN ET AL. APR 84

UNCLASSIFIED USCG-D-18-84 F/G 8/3 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

DATA APPENDIX 2

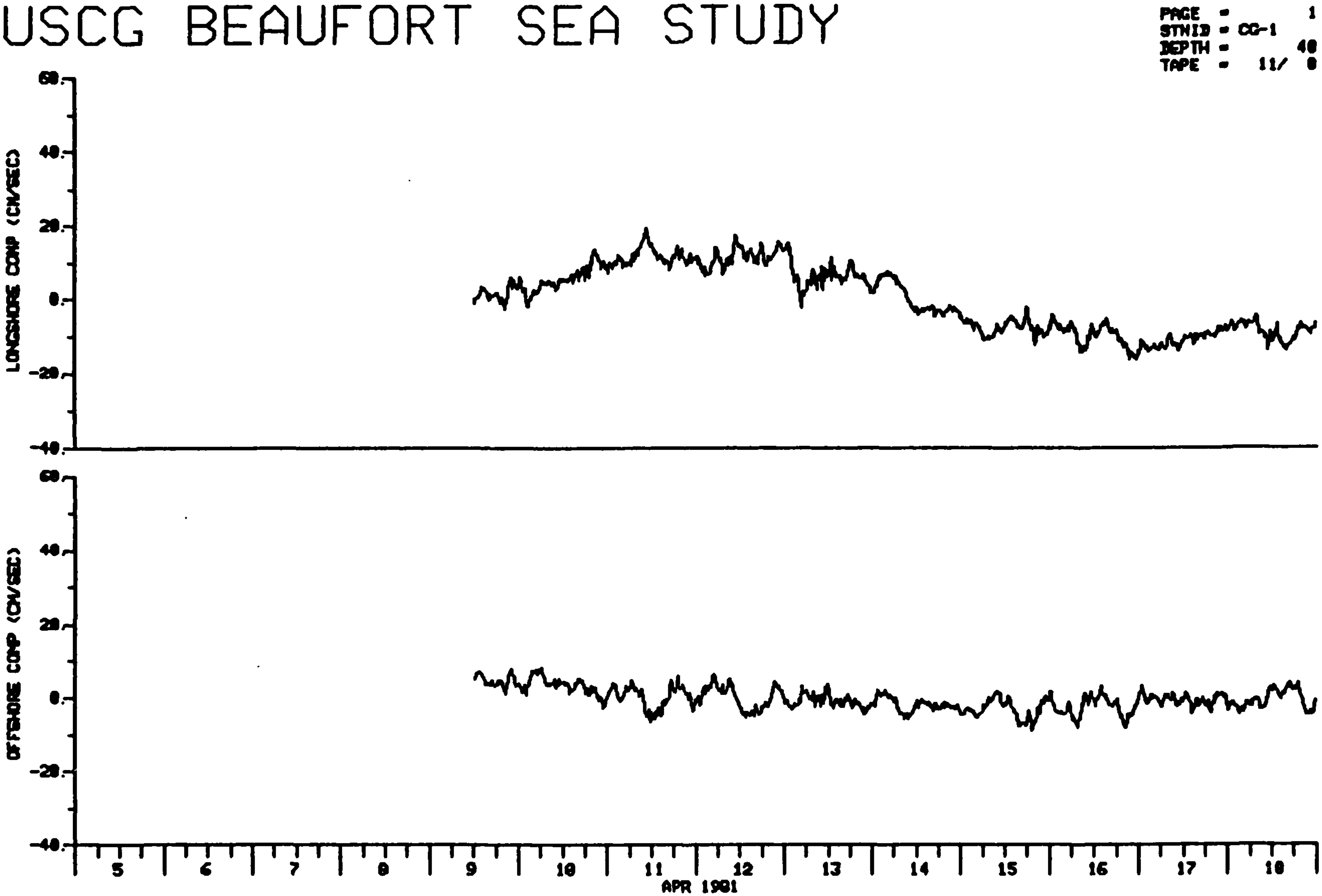
Time Series and Filtered Time Series Plots
of all Current Meter Data

CG11

40 m depth
70° 53.0' N   145° 55.3' W
9 April 1981 to 1 August 1981
Longshore direction is 118° T
Offshore direction is 028° T

Filter is 25 hour low pass
$A_{24}^{2} A_{25}$ (Godin, 1972)

USCG BEAUFORT SEA STUDY



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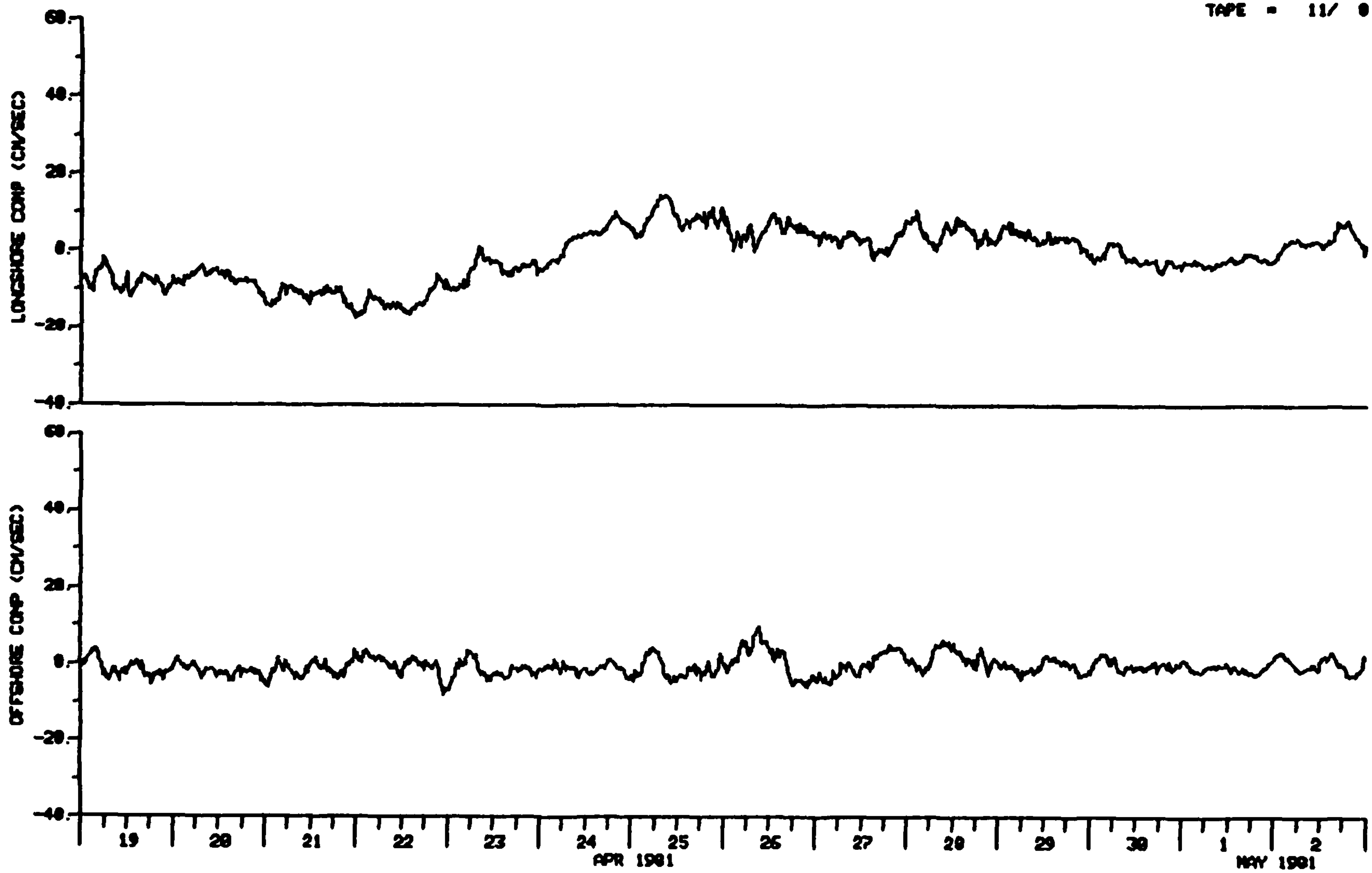

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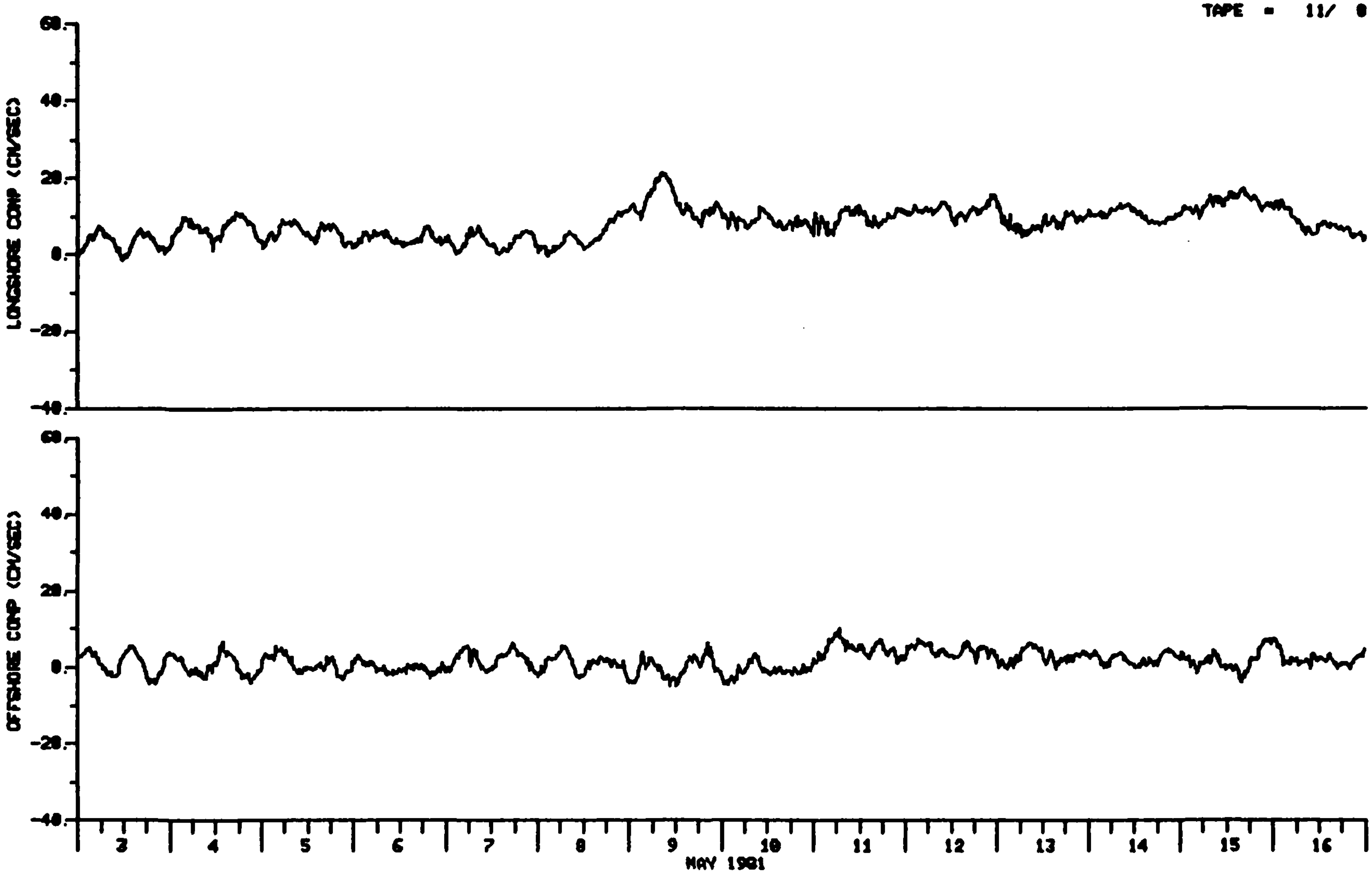

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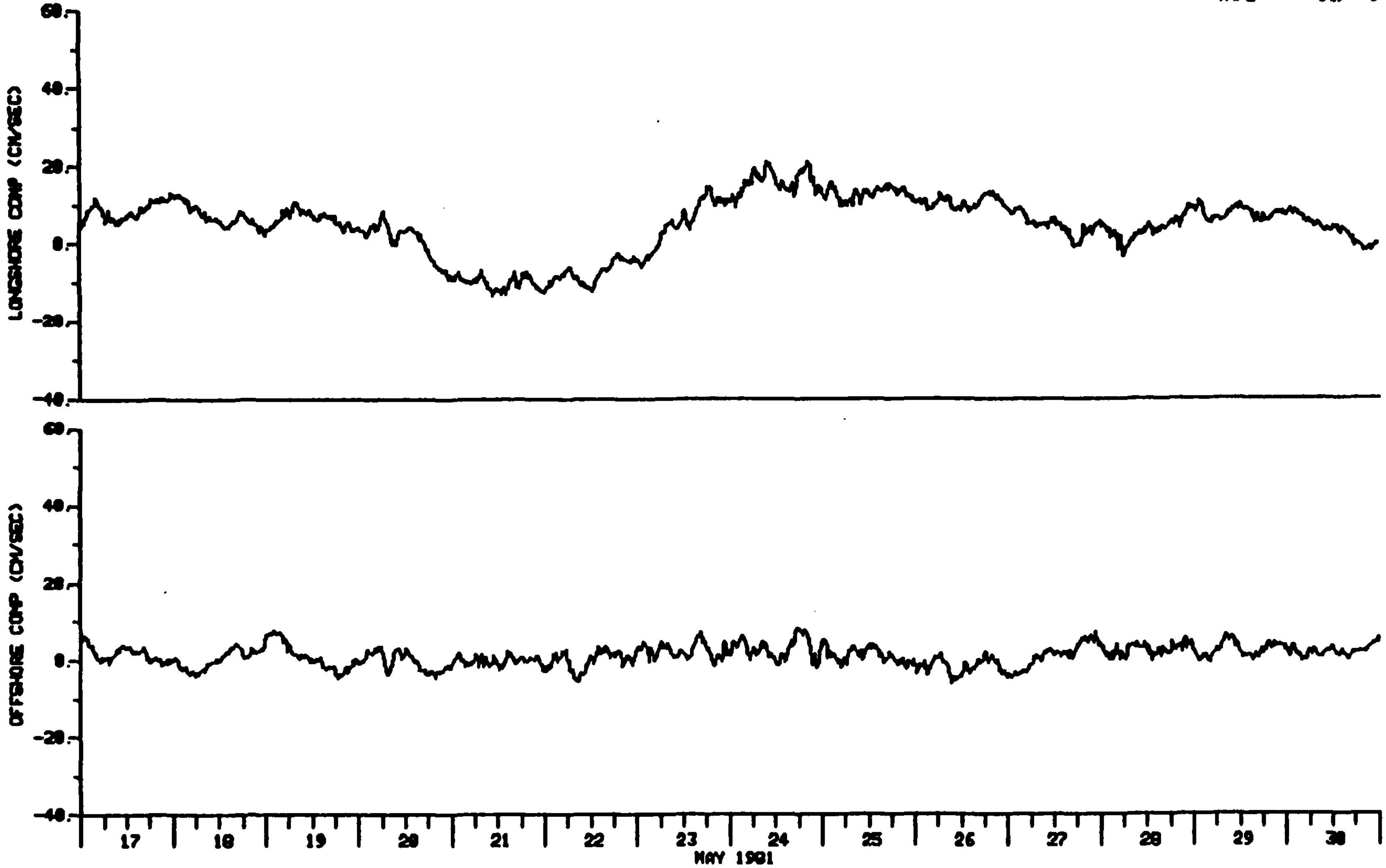

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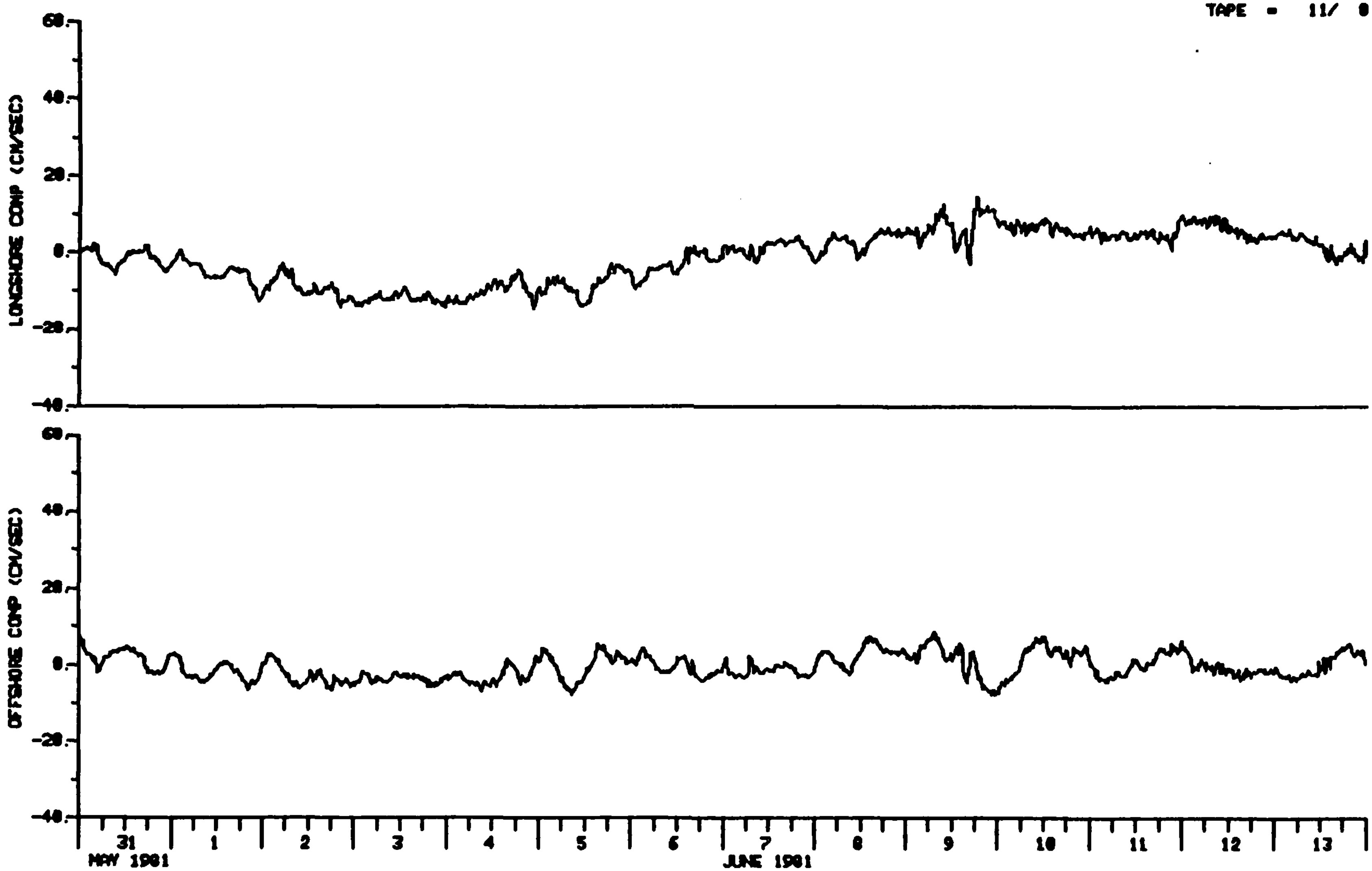

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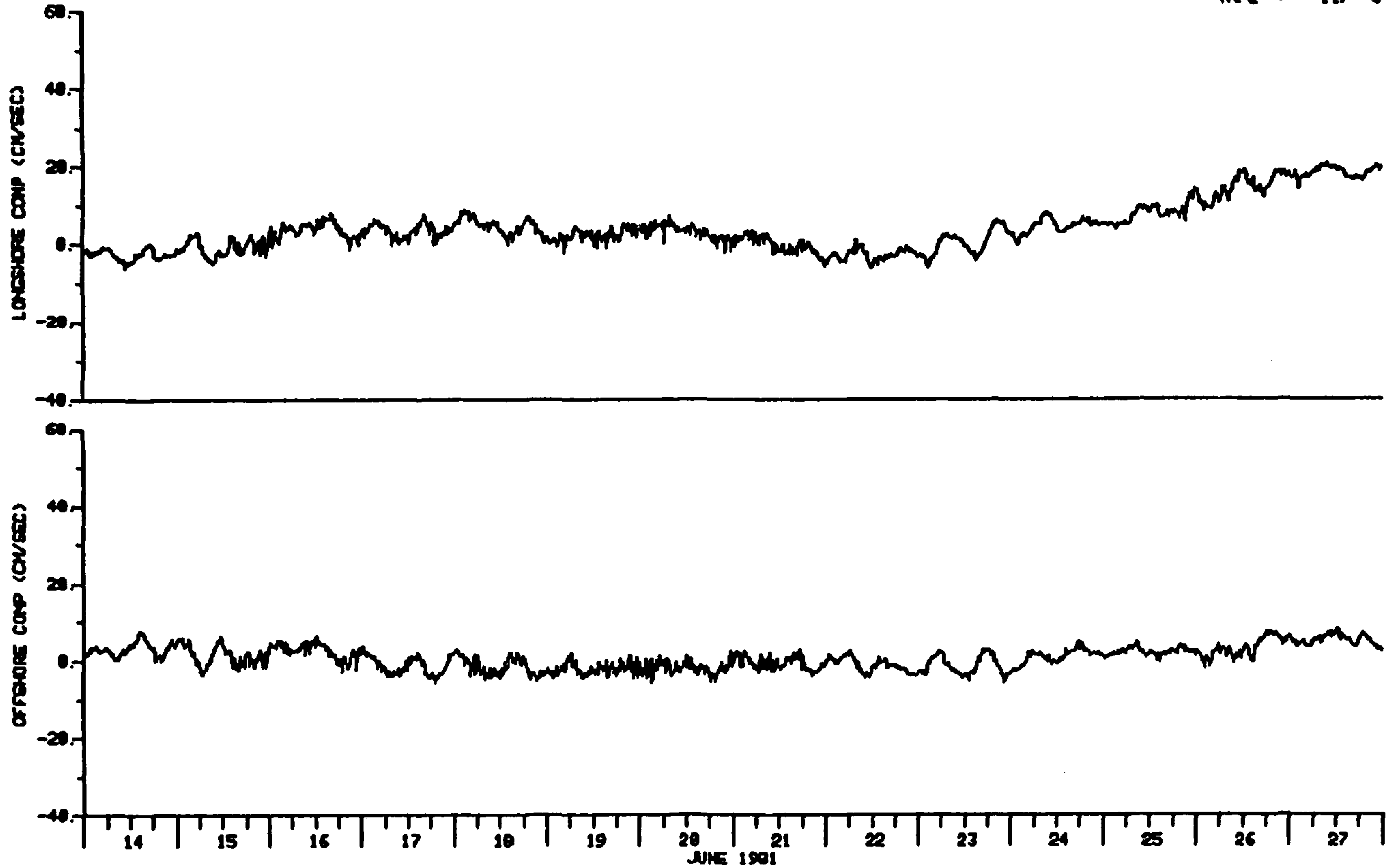

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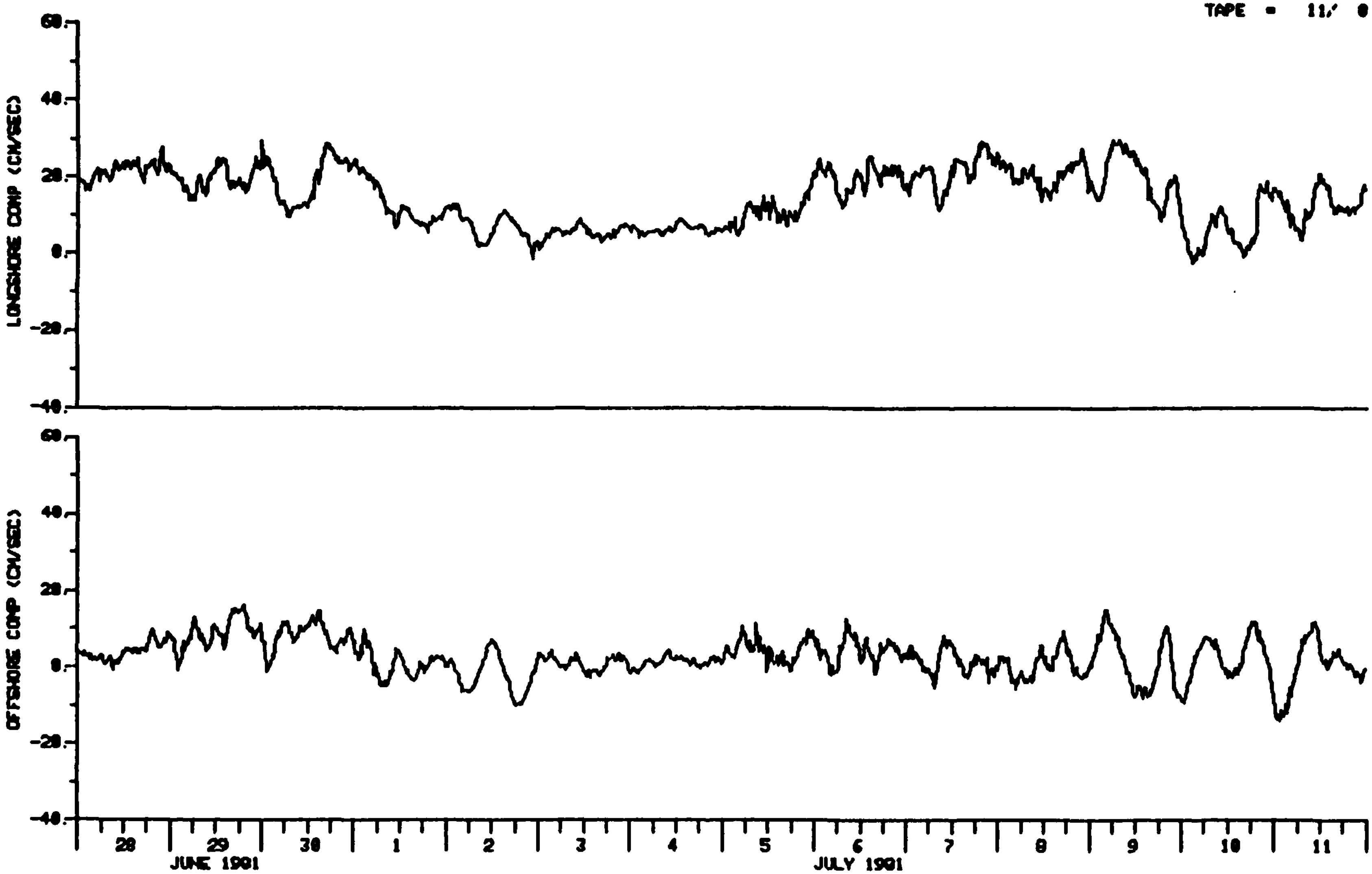

USCG BEAUFORT SEA STUDY

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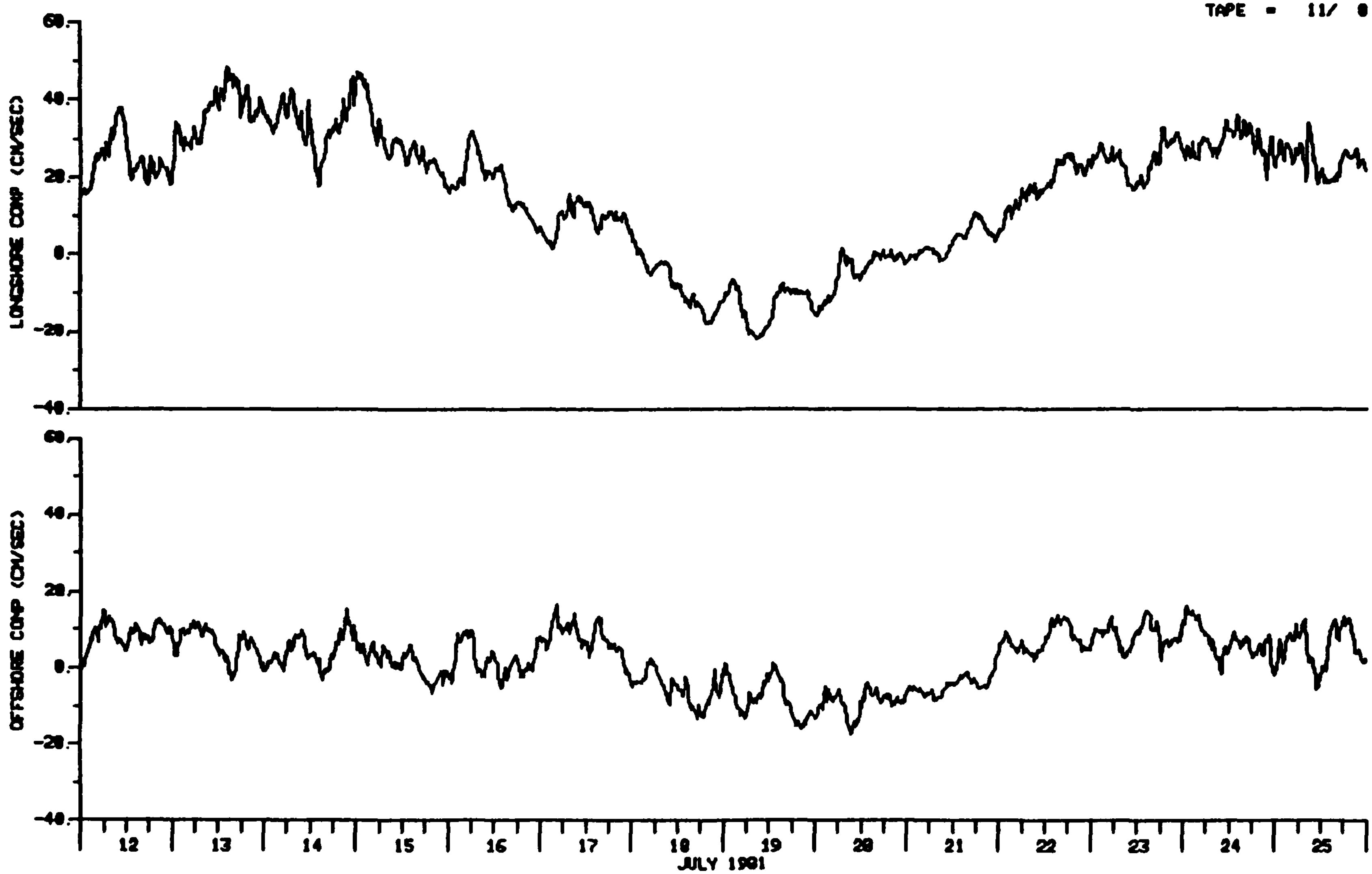

USCG BEAUFORT SEA STUDY

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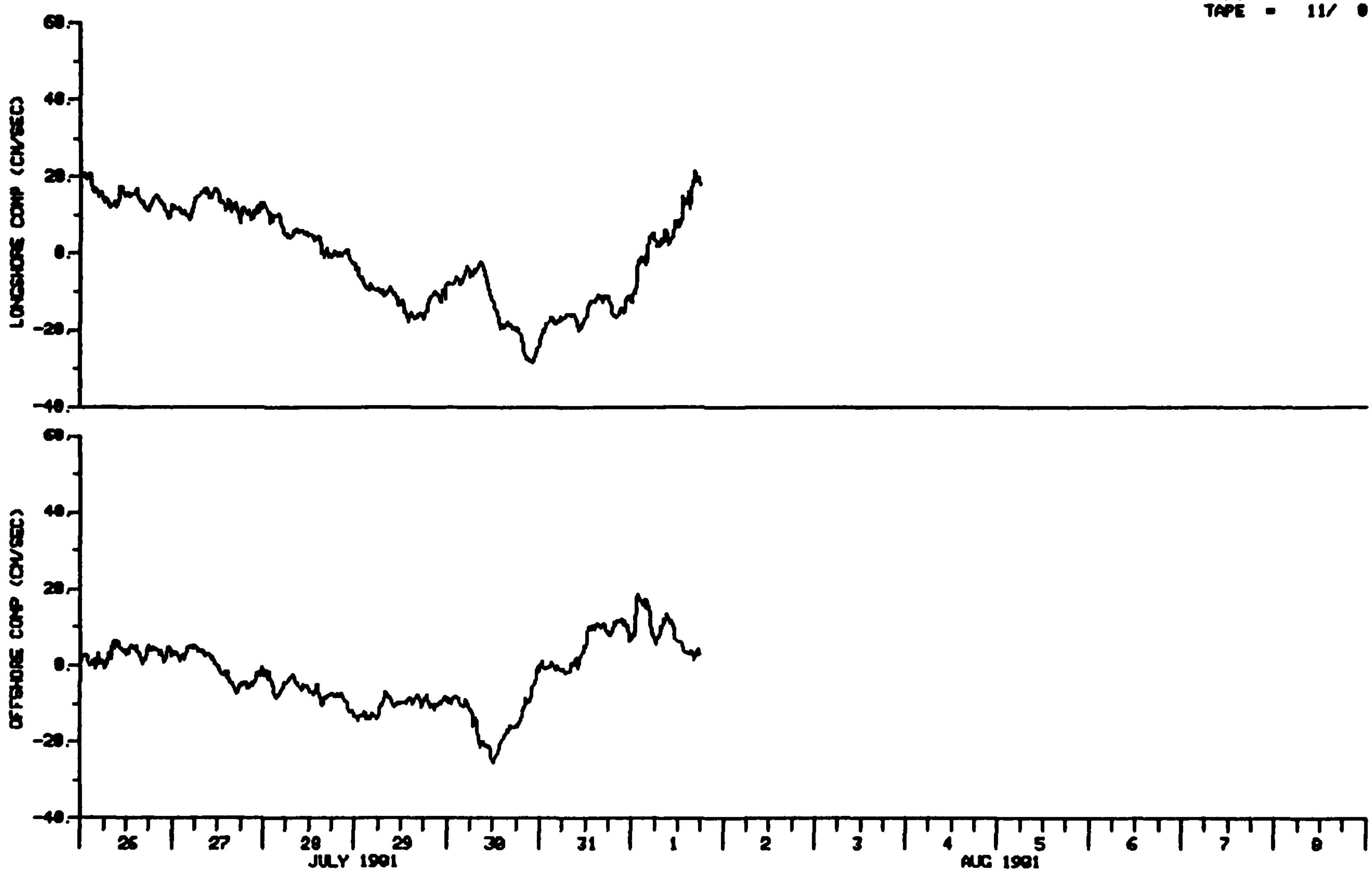
STNID = CO-1
DEPTH = 40
TAPE = 11/ 0



USCG BEAUFORT SEA STUDY

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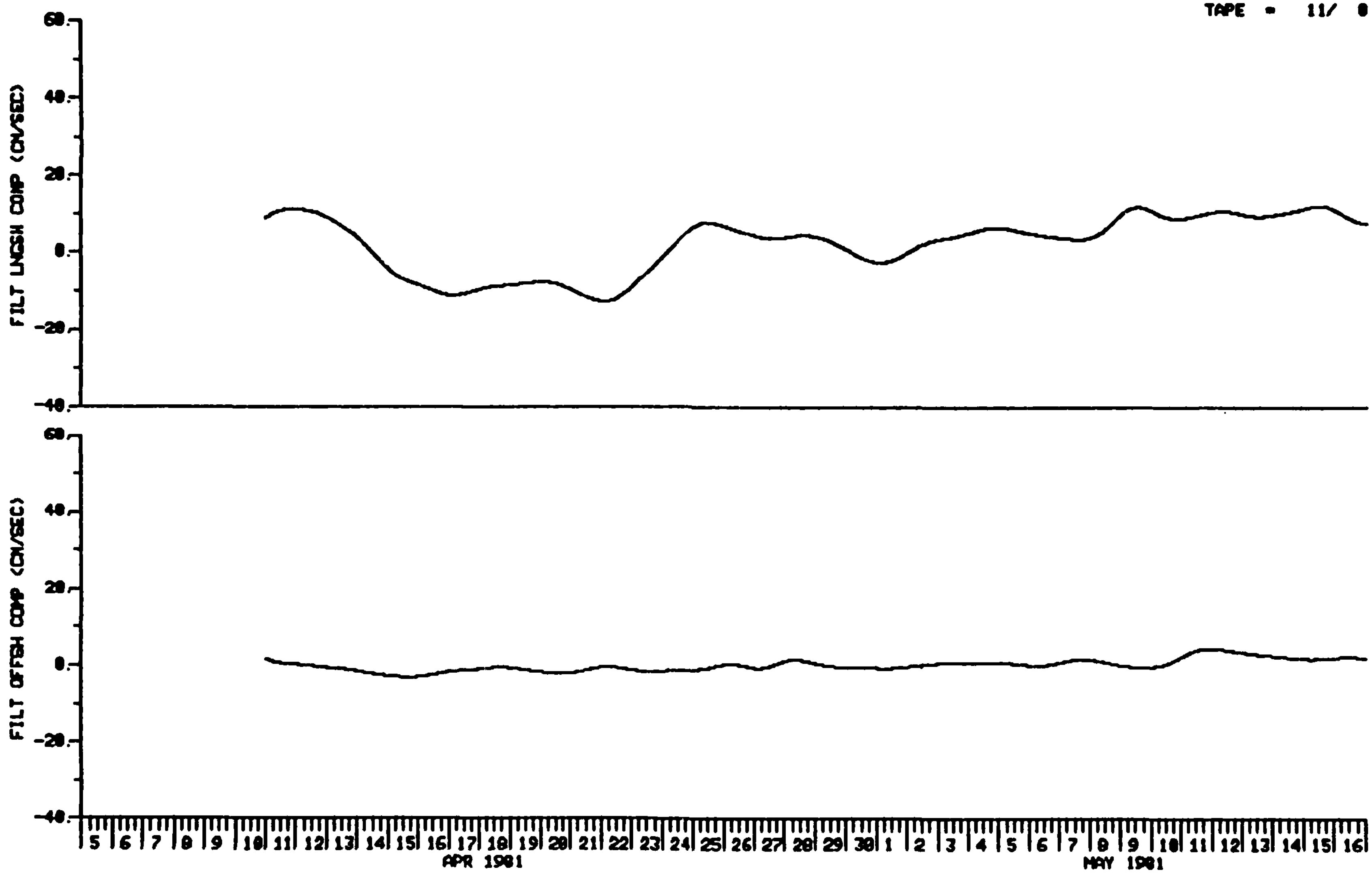
STNID = CG-1
ELEV = 40
TAPE = 11/ 8



USCG BEAUFORT SEA STUDY

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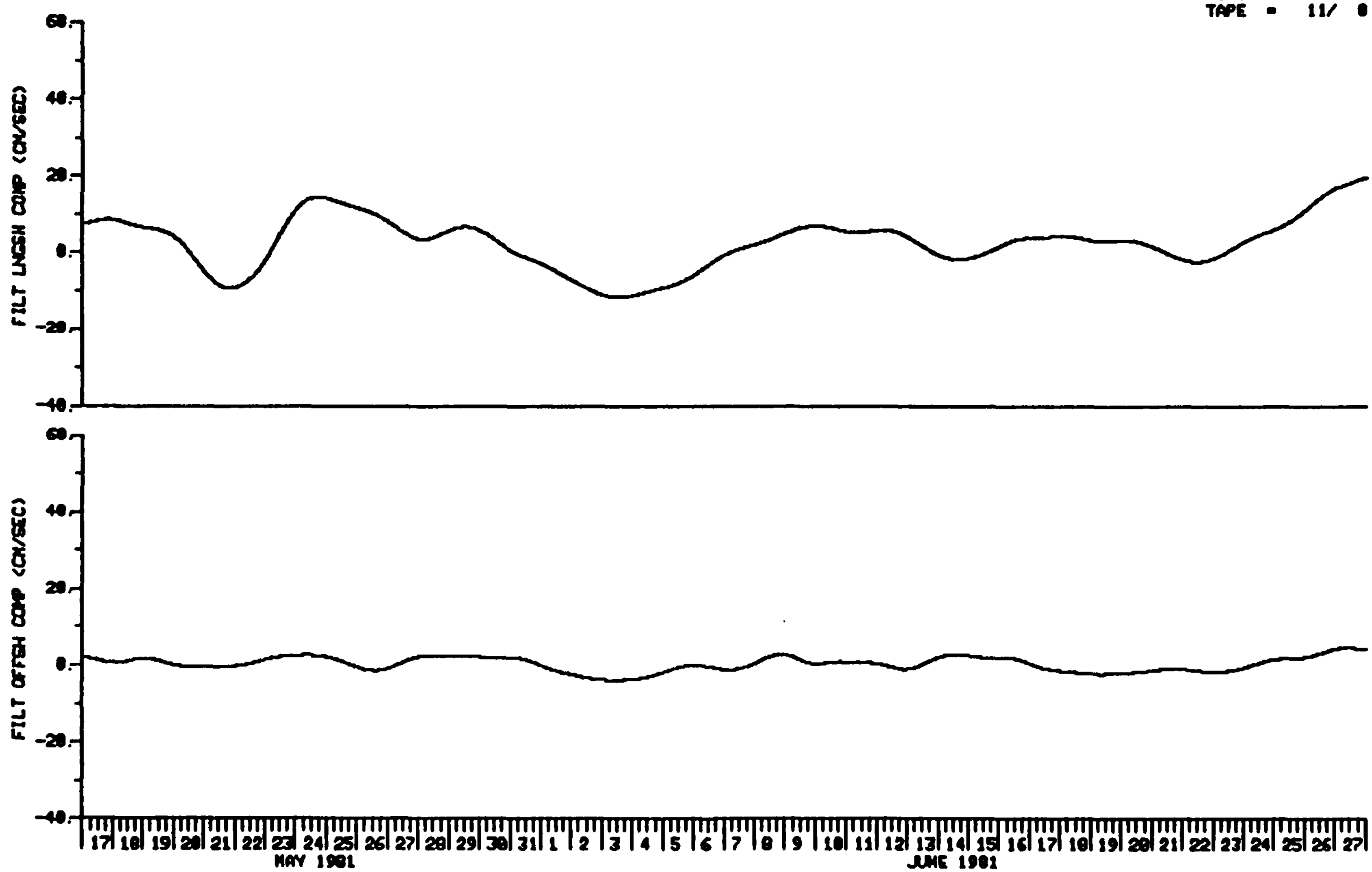
STNID = CG-1
ELEV = 40
TAPE = 11/ 0



USCG BEAUFORT SEA STUDY

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STNID = CG-1
ELEV = 40
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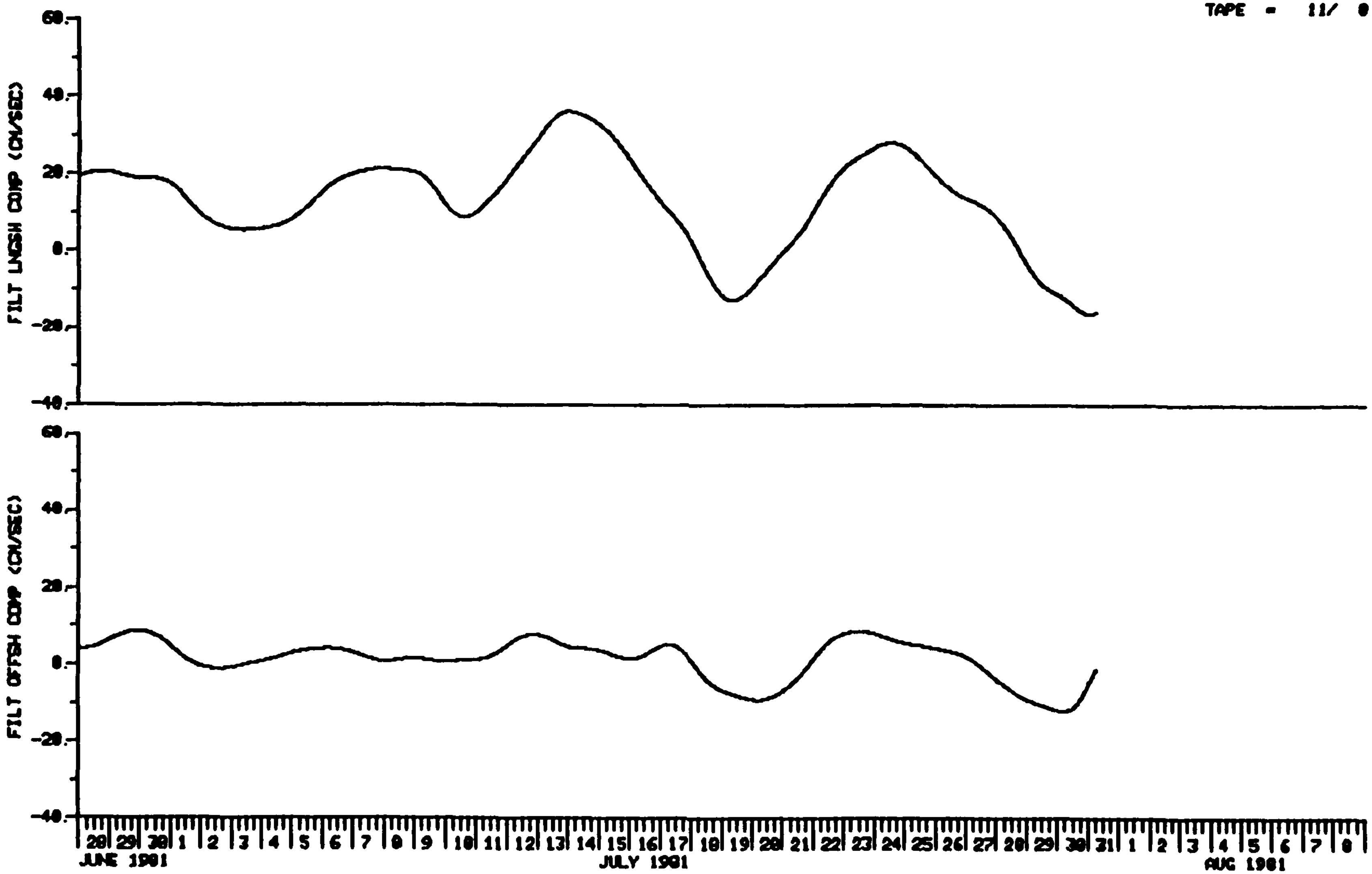


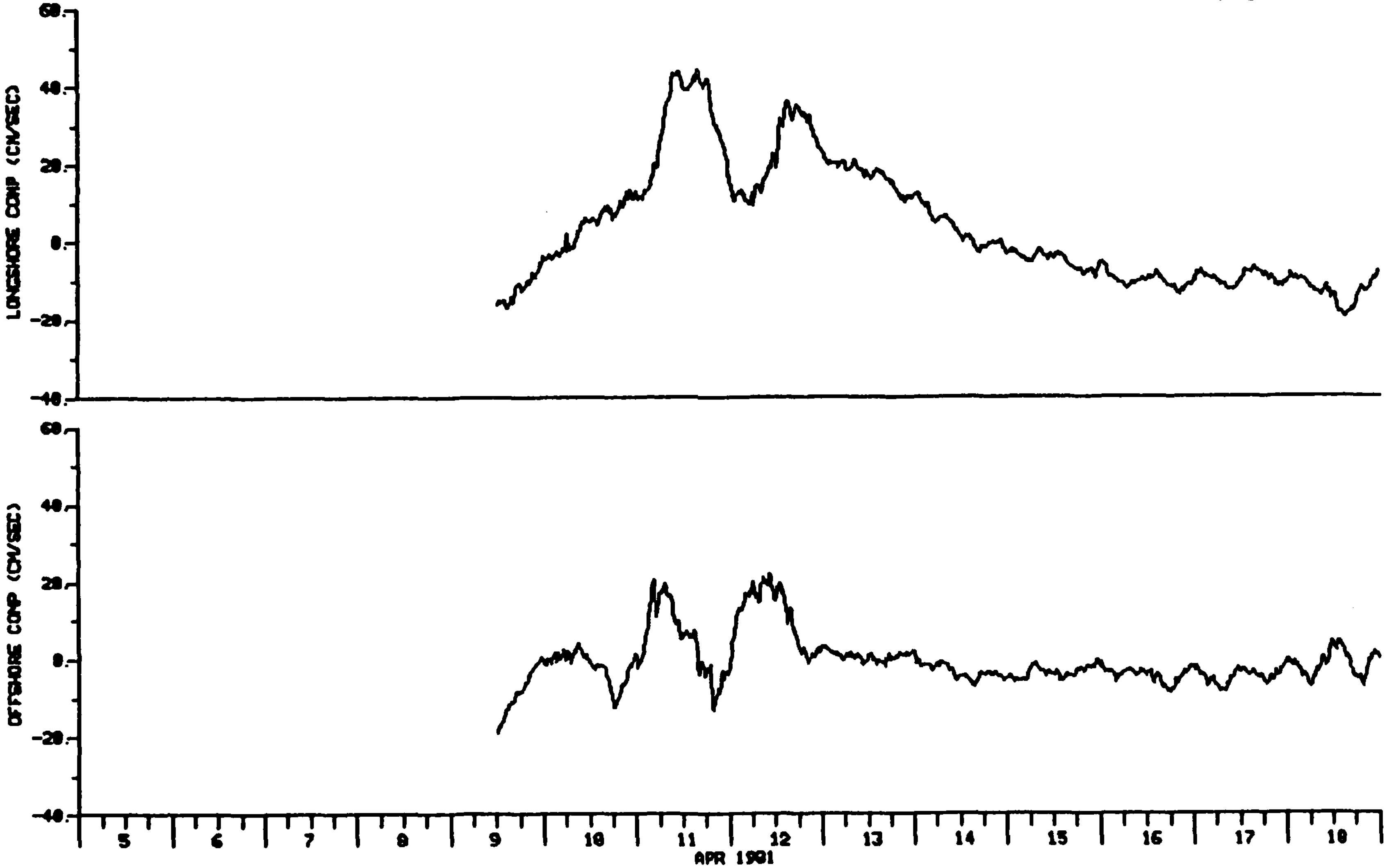
CG12

150 m depth
70° 53.0' N   145° 55.3' W
9 April 1981 to 1 August 1981
Longshore direction is 118° T
Offshore direction is 028° T

Filter is 25 hour low pass
$A_{24}^2 A_{25}$ (Godin, 1972)

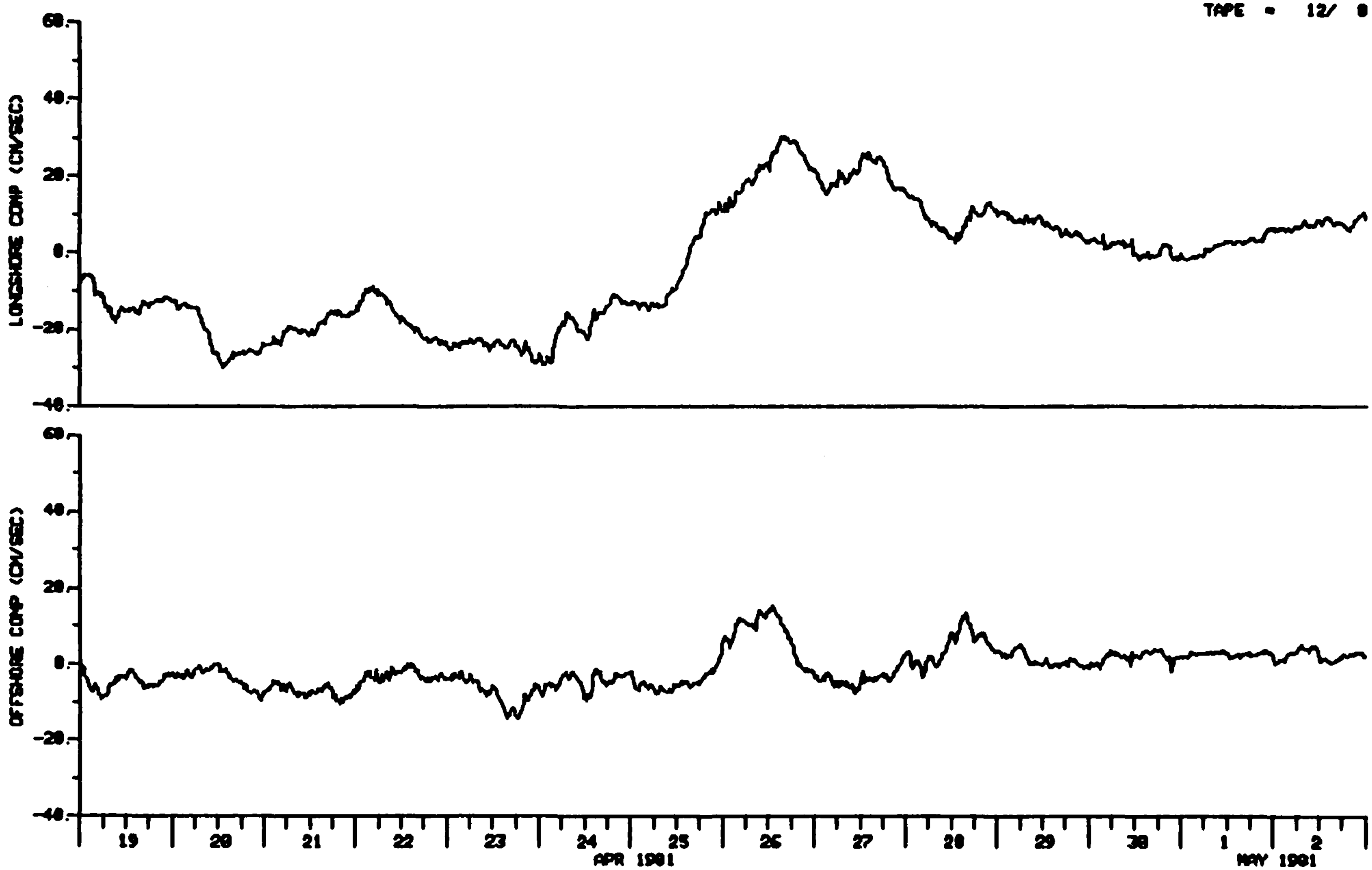
USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8



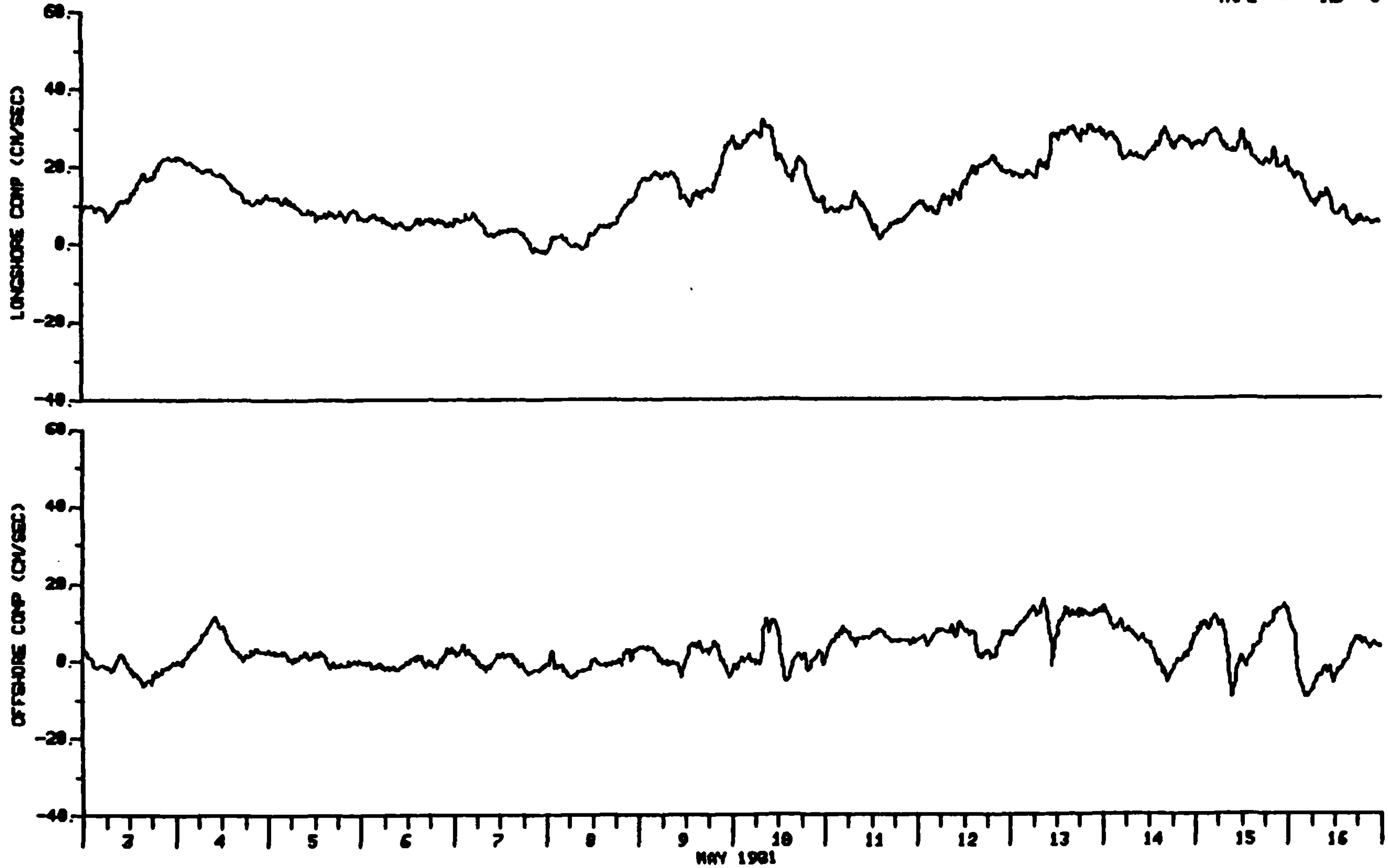
USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8



USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8



USCG BEAUFORT SEA STUDY

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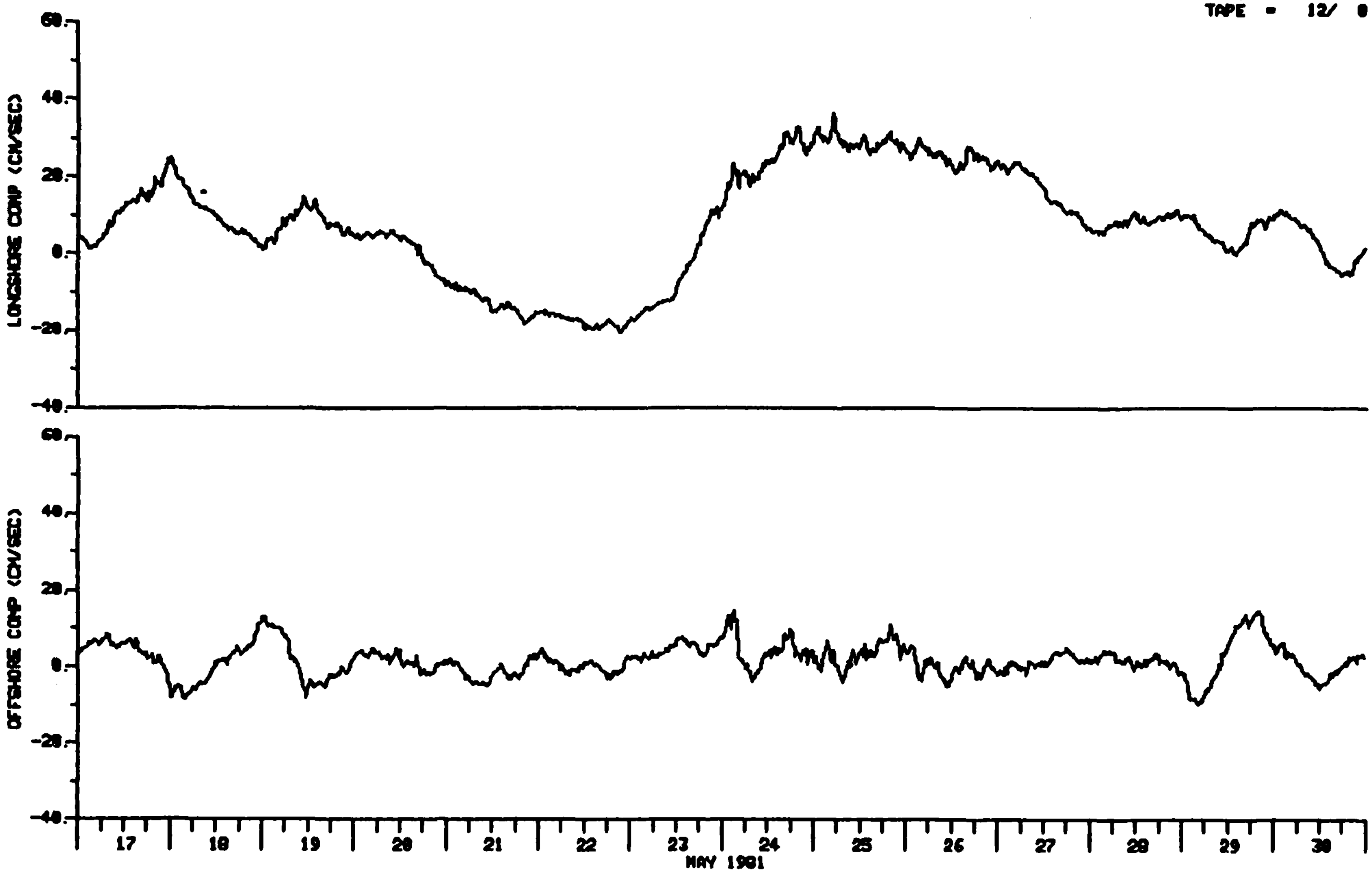
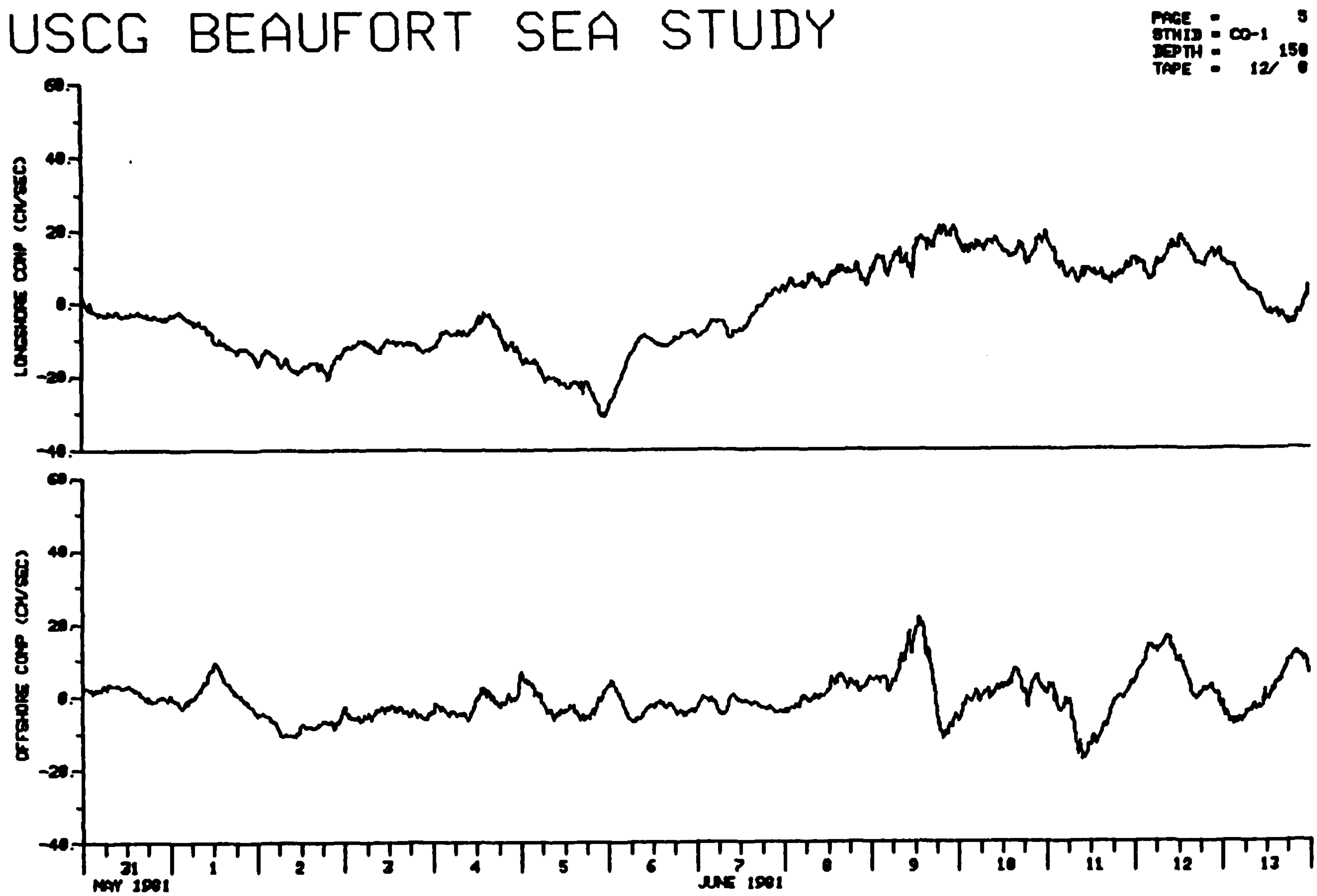
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8



USCG BEAUFORT SEA STUDY



USCG BEAUFORT SEA STUDY

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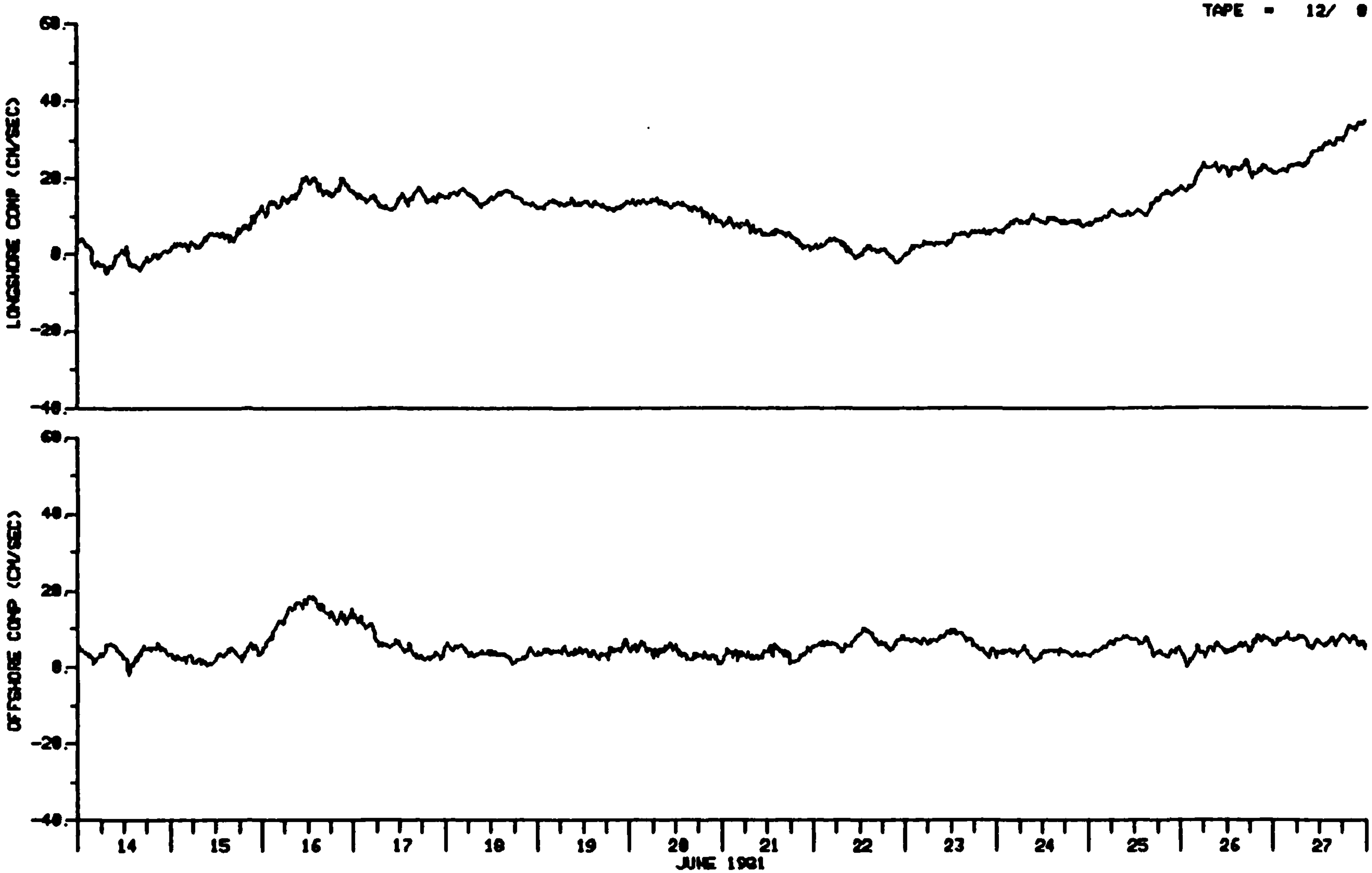
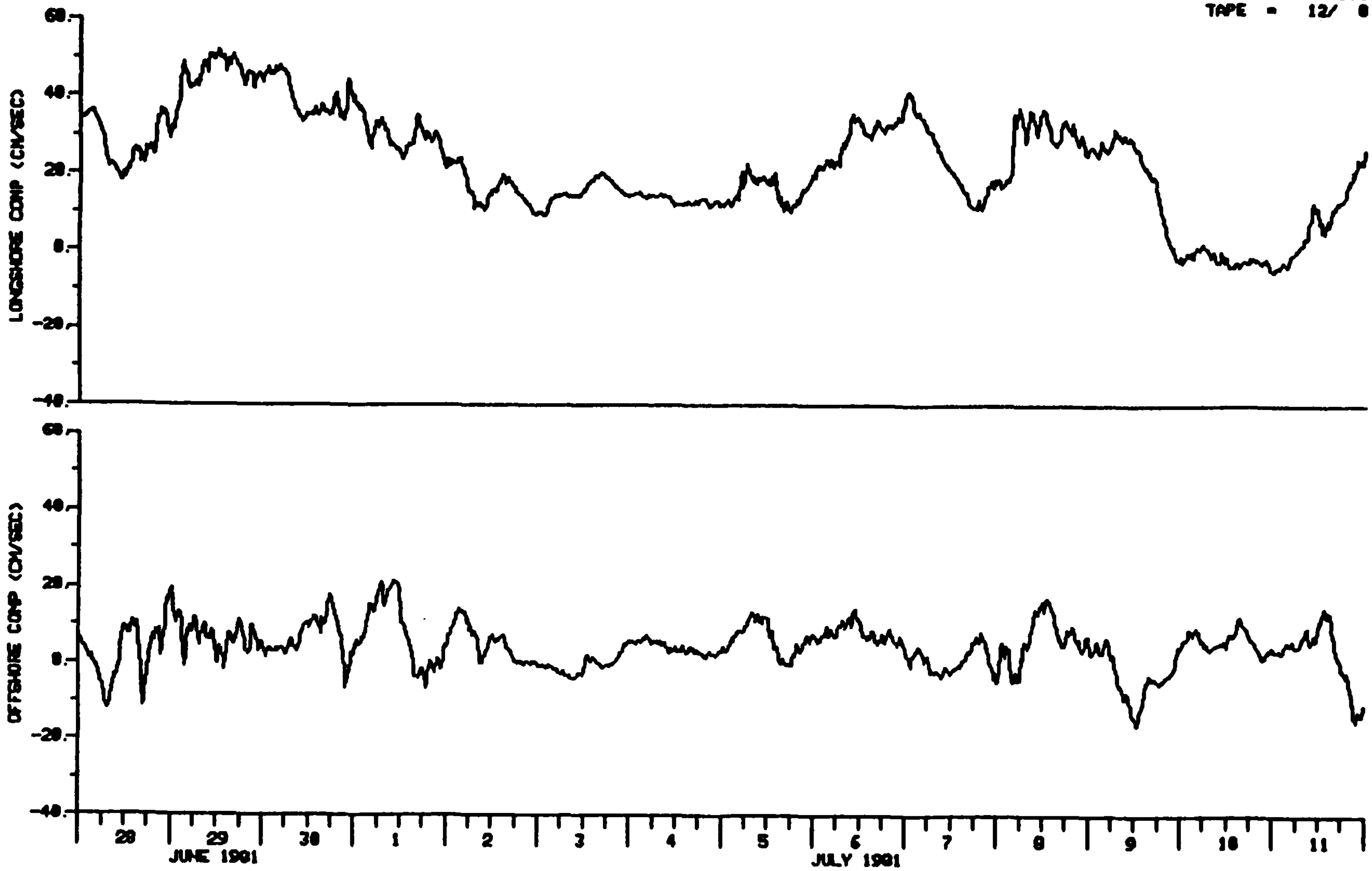
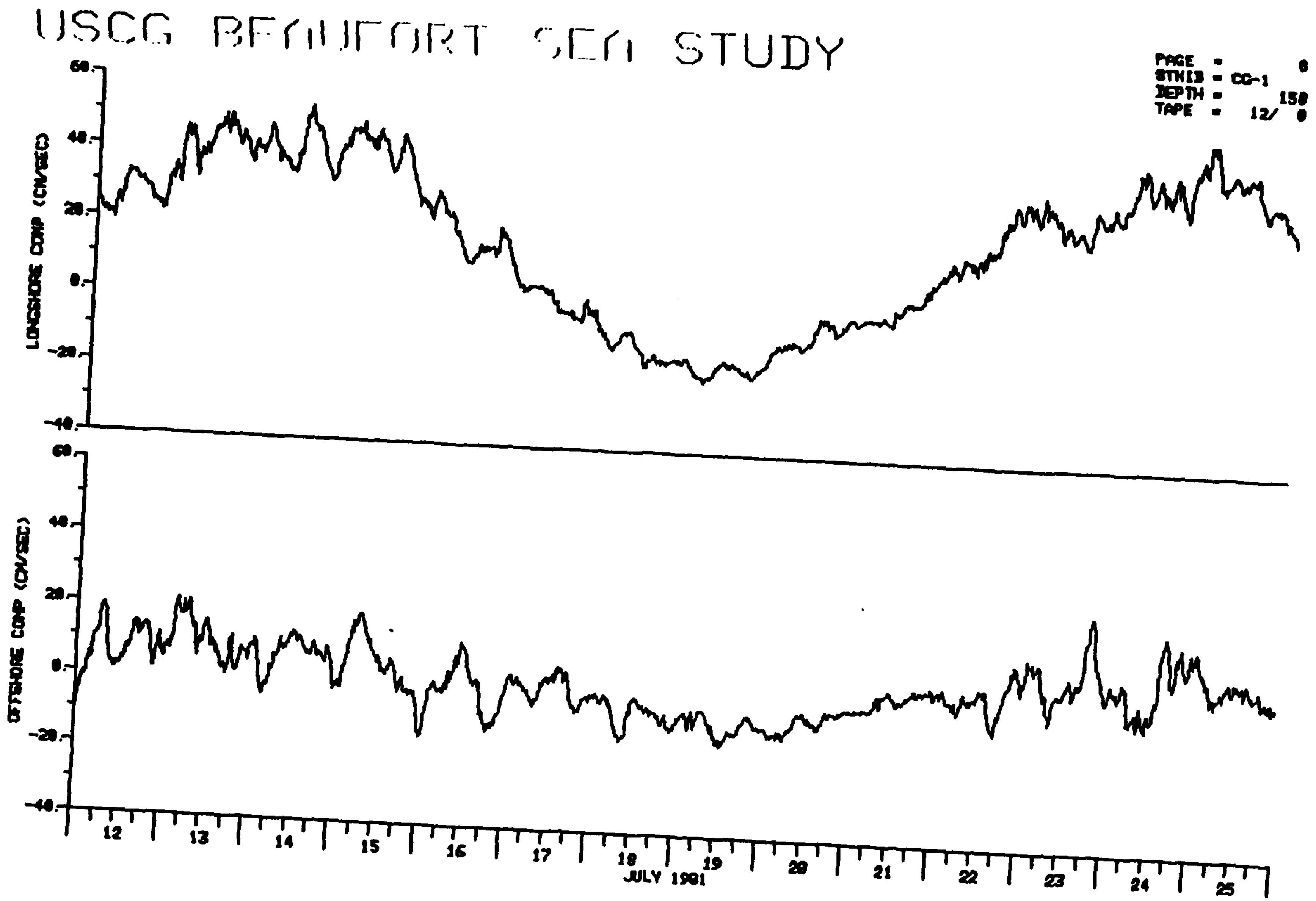


USCG BEAUFORT SEA STUDY

PAGE = 7
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8

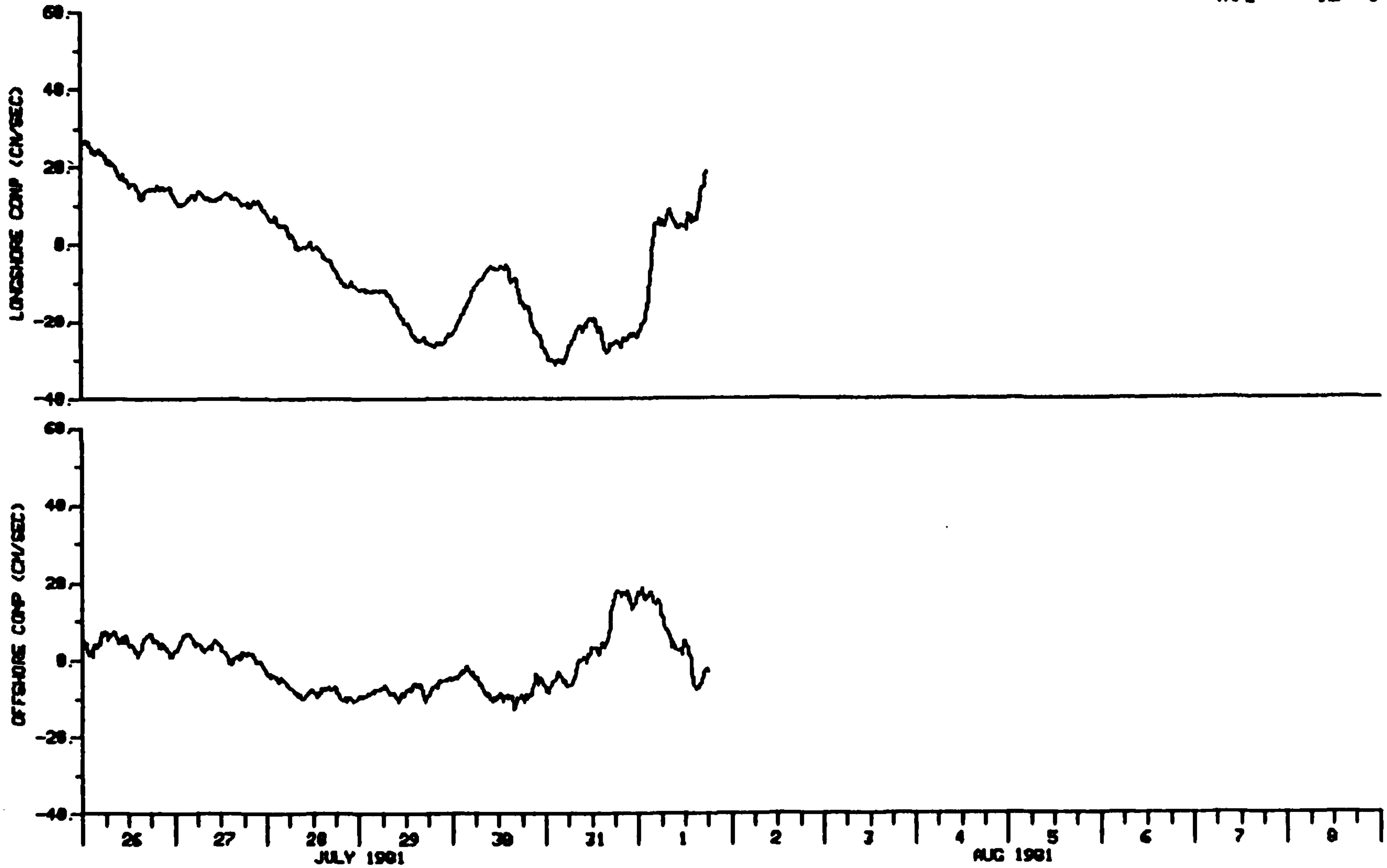




USCG BEAUFORT SEA STUDY
PAGE = 8
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8
LONGSHORE COMP (CM/SEC)
OFFSHORE COMP (CM/SEC)
60.
40.
20.
0.
-20.
-40.
12
13
14
15
16
17
18
19
20
21
22
23
24
25
JULY 1981

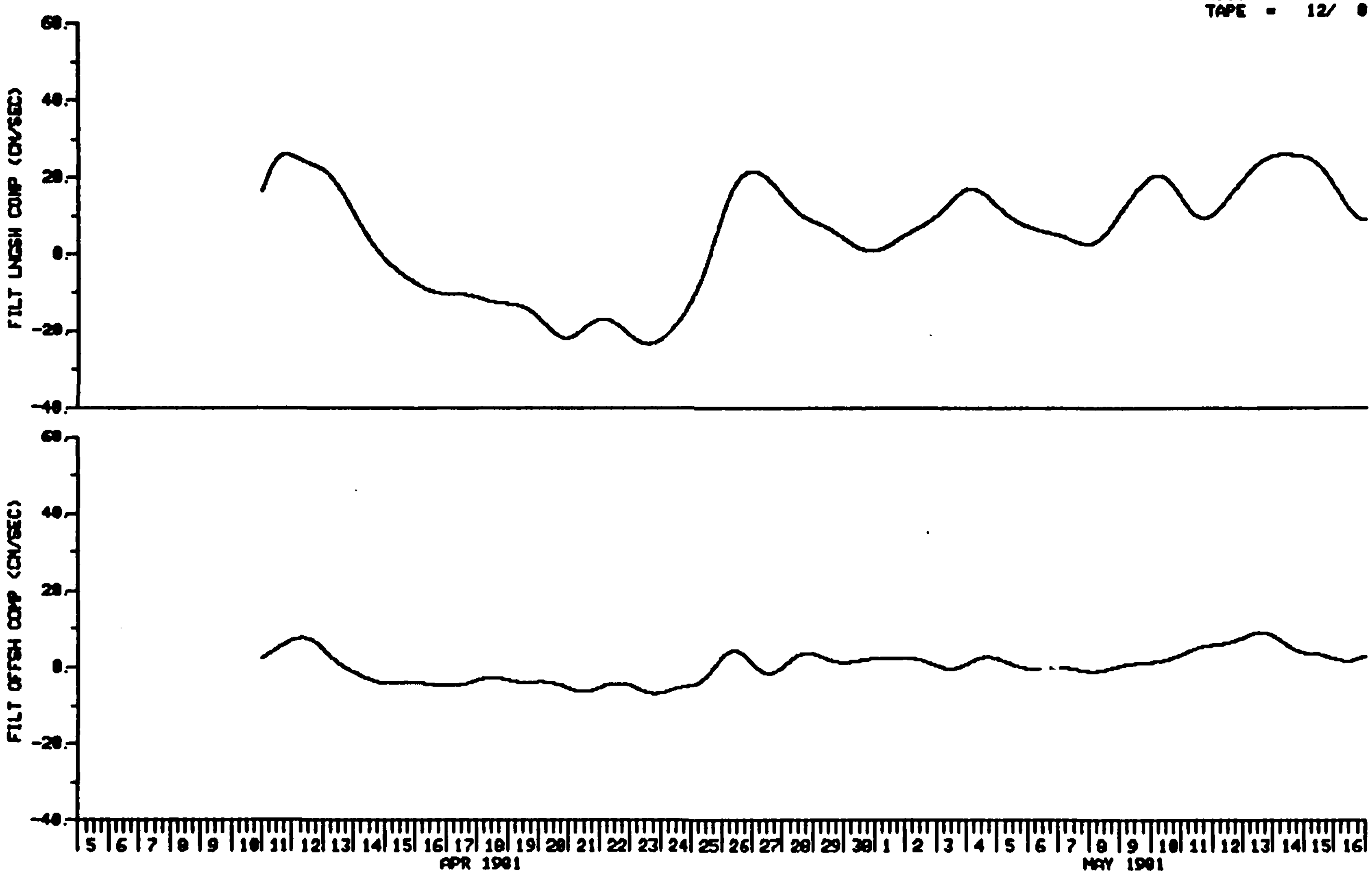
USCG BEAUFORT SEA STUDY

PAGE = 9
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8

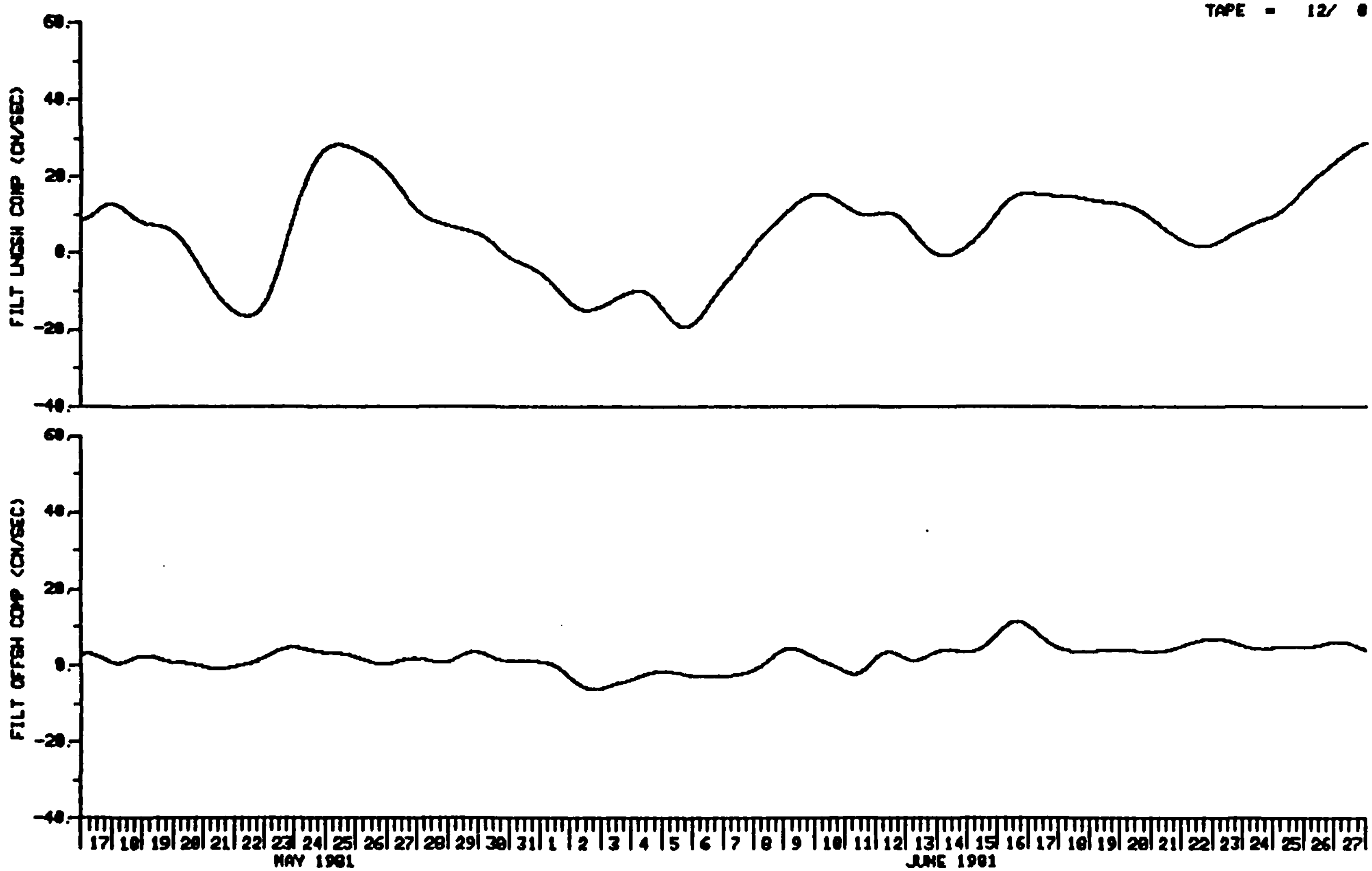


USCG BEAUFORT SEA STUDY

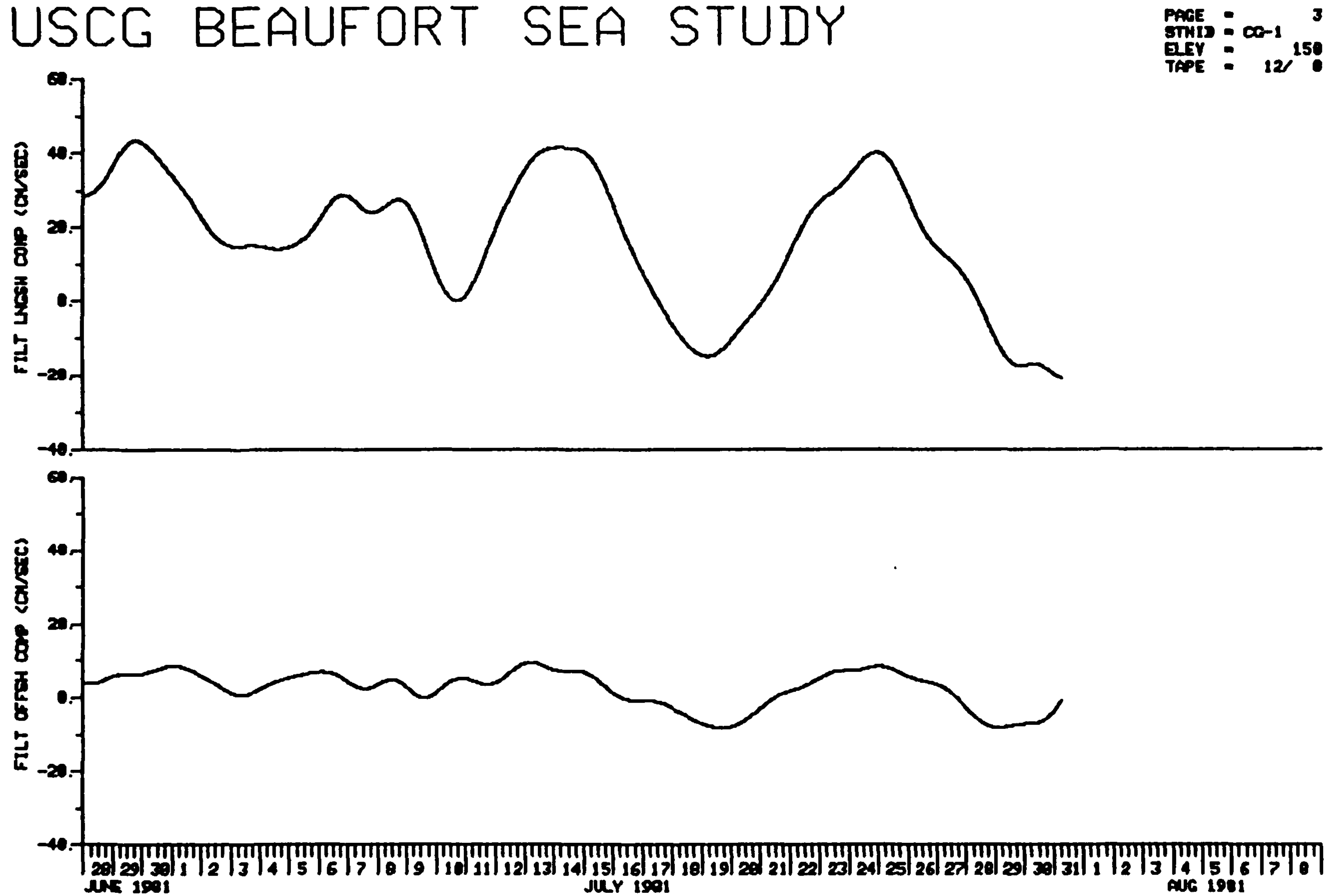
PAGE = 1
STNID = CG-1
ELEV = 150
TAPE = 12/ 0



USCG BEAUFORT SEA STUDY



USCG BEAUFORT SEA STUDY



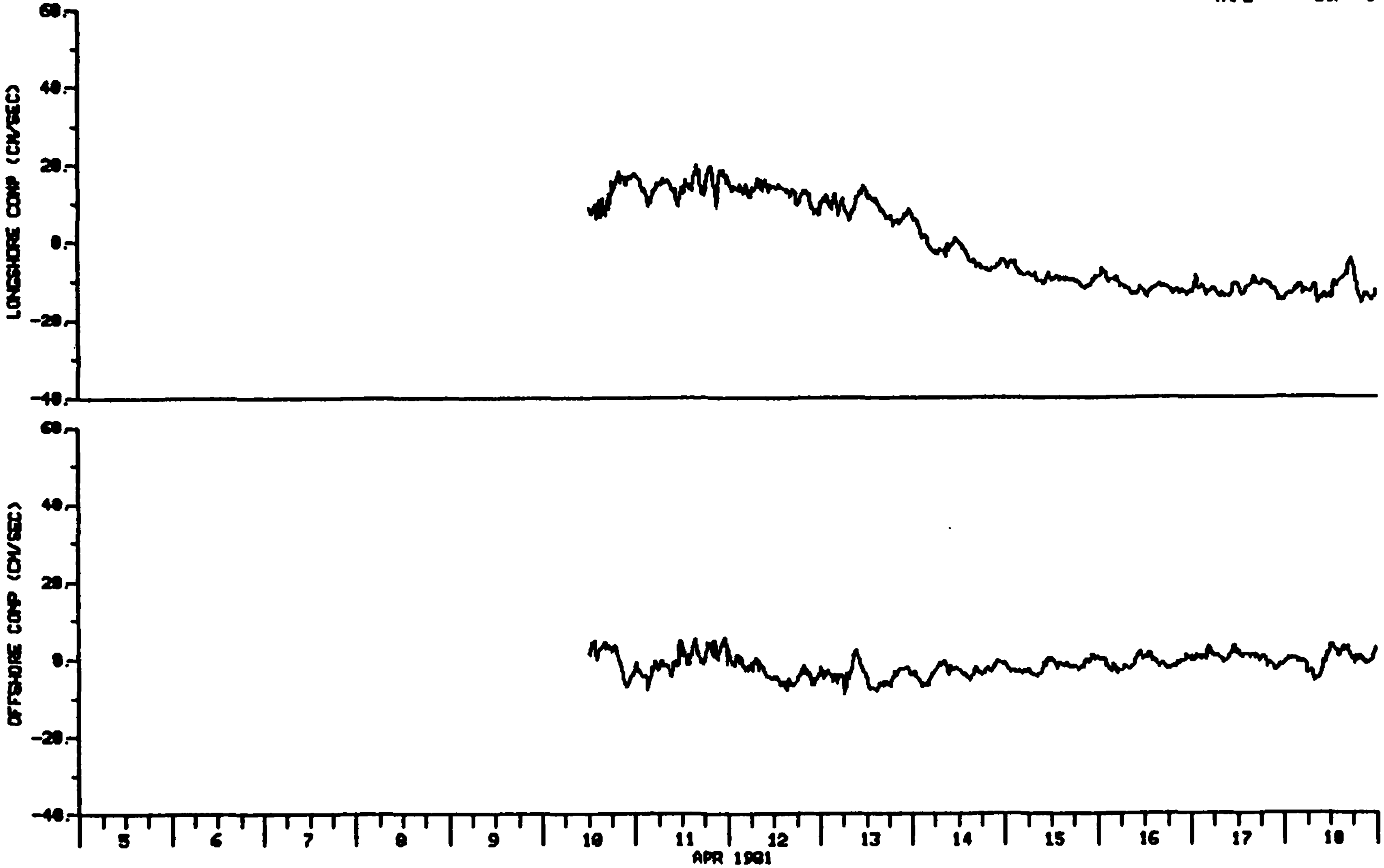
CG21

40 m depth
70° 56.4' N   146° 00.6' W
10 April 1981 to 1 August 1981
Longshore direction is 118° T
Offshore direction is 028° T

Filter is 25 hour low pass
$A_{24}^{2} A_{25}$ (Godin, 1972)

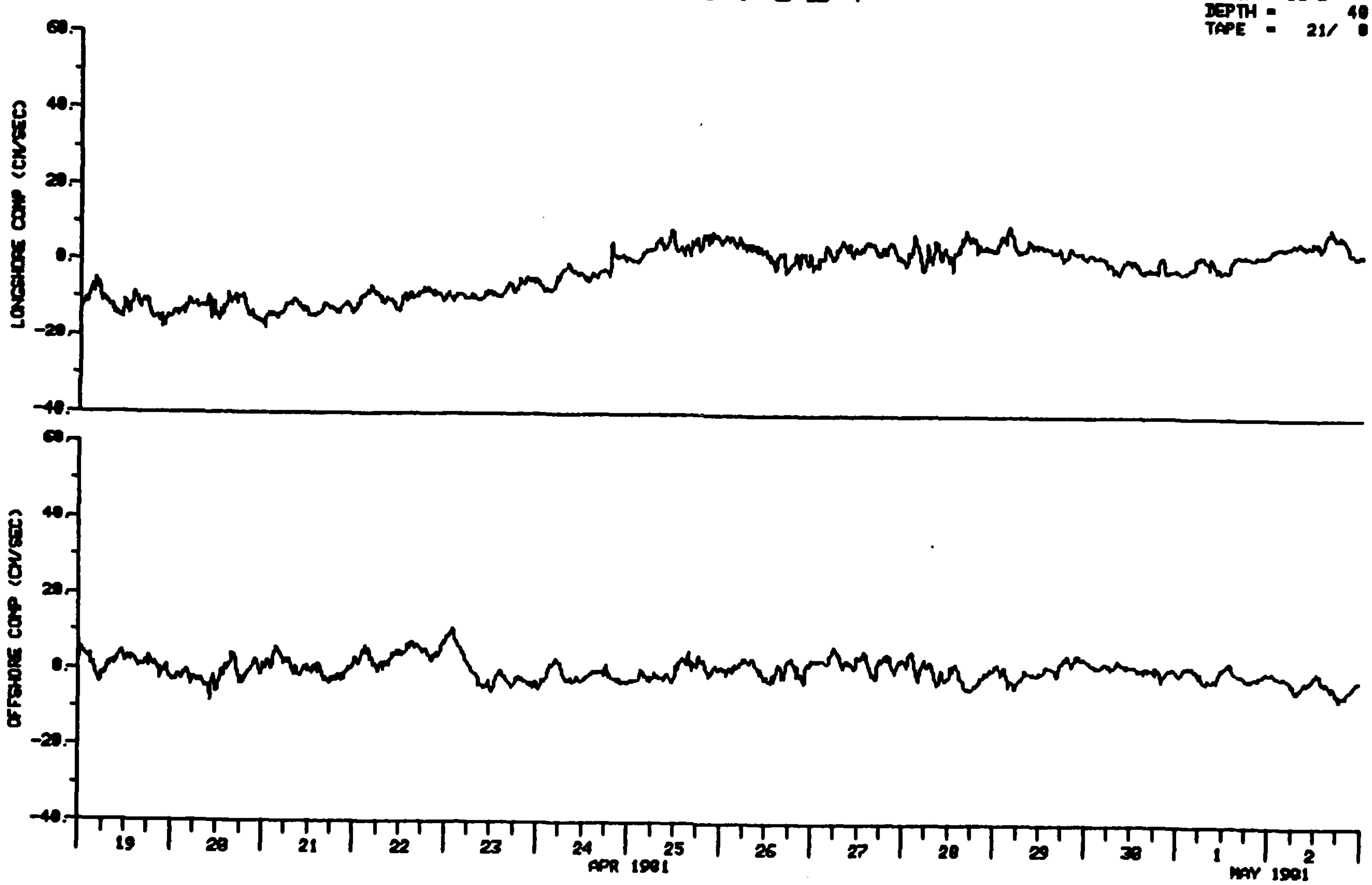
USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CG-2
DEPTH = 40
TAPE = 21/ 8



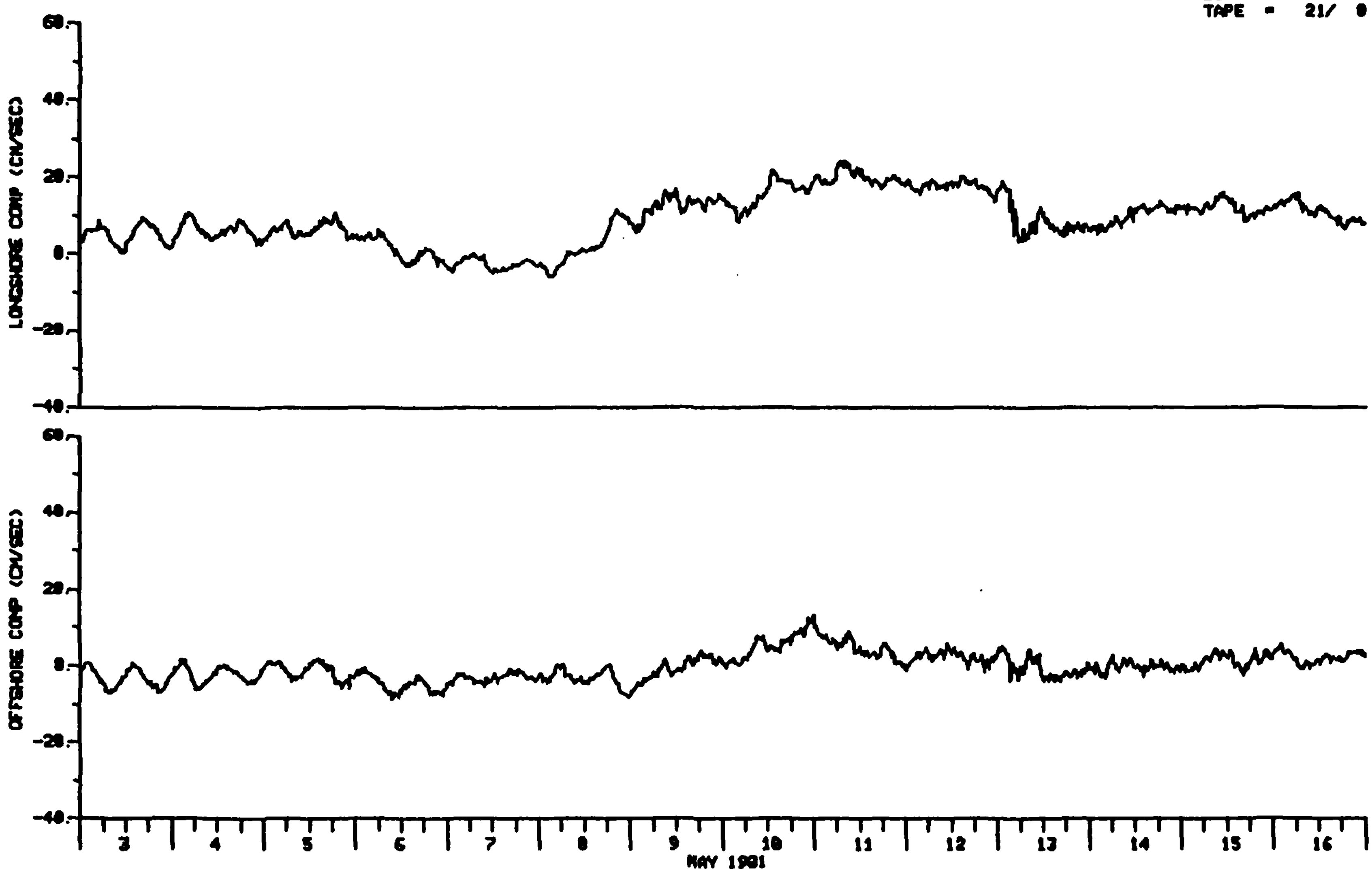
USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CG-2
DEPTH = 40
TAPE = 21/ 8



USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CG-2
DEPTH = 40
TAPE = 21/ 8



USCG BEAUFORT SEA STUDY

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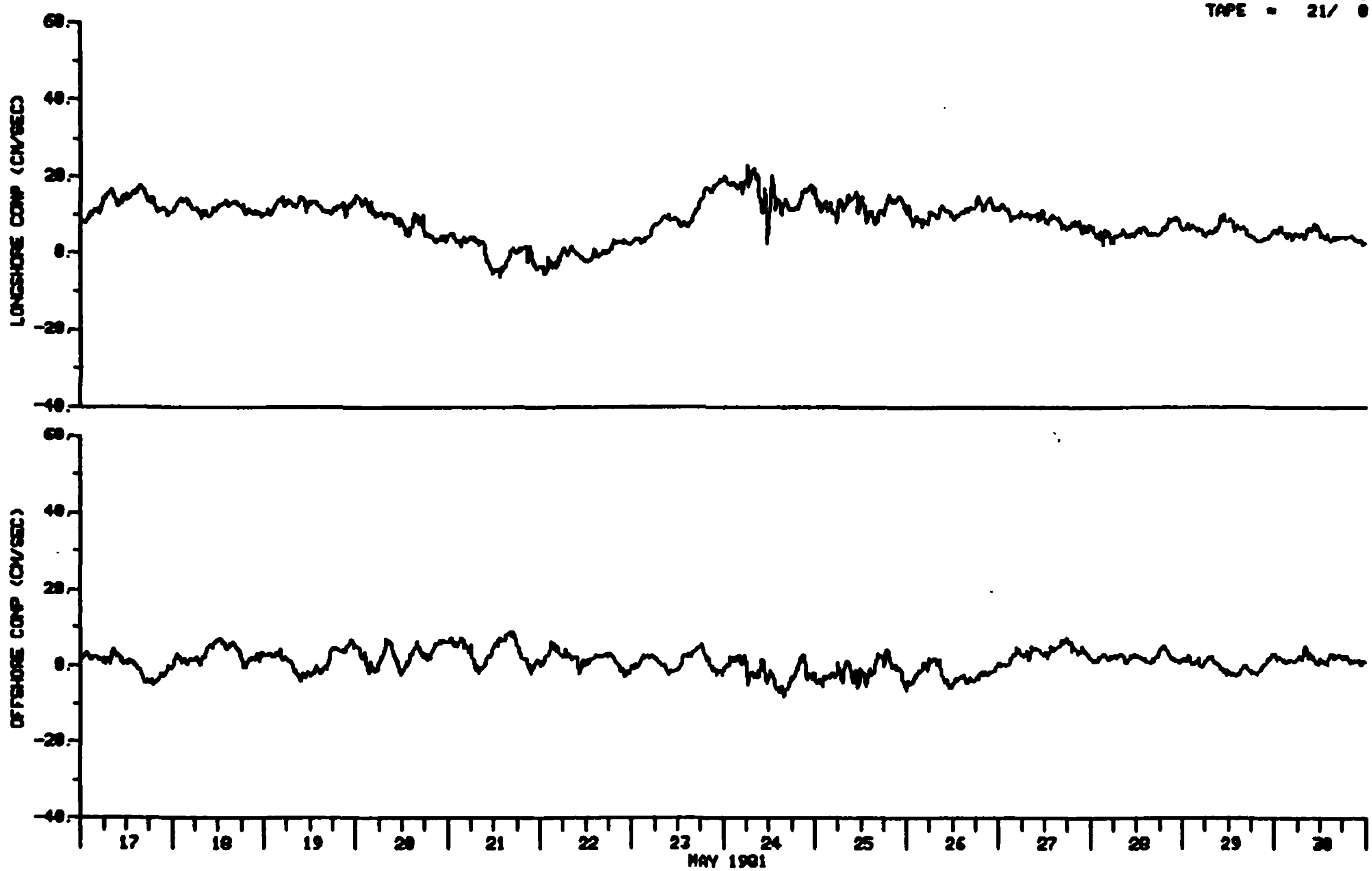
TAPE = 21/ 0



USCG BEAUFORT SEA STUDY

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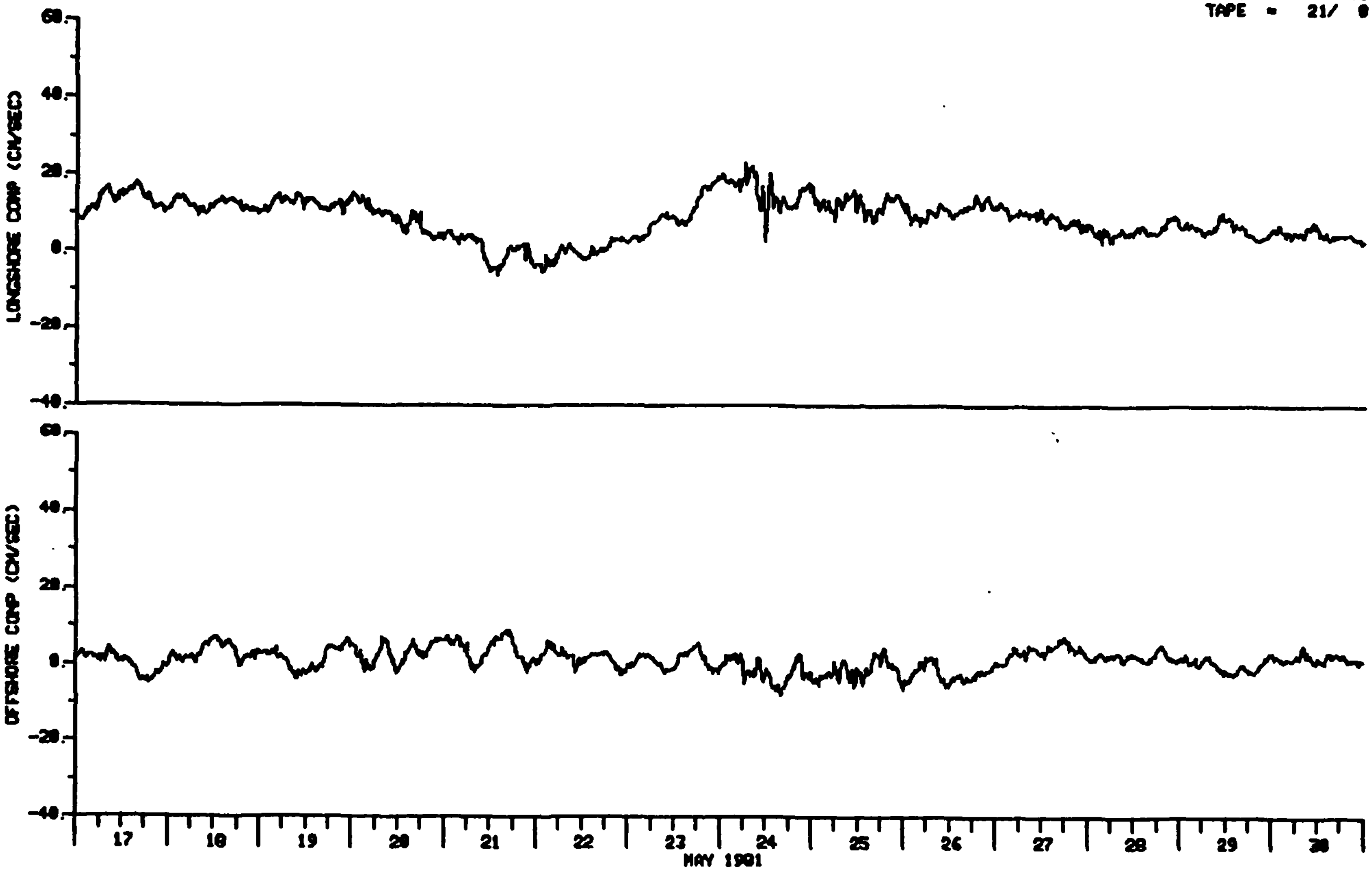
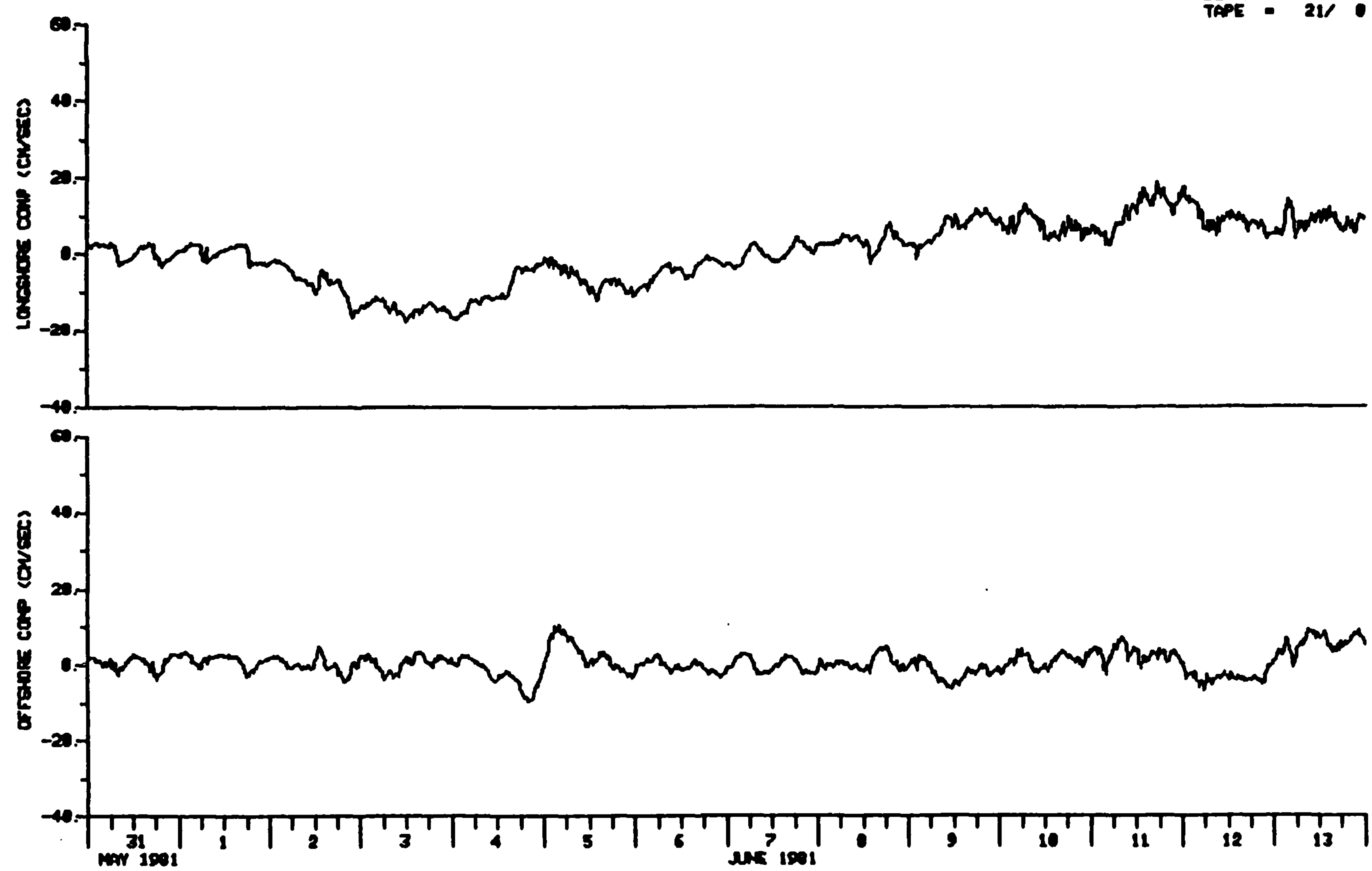
STNID = CO-2
DEPTH = 40
TAPE = 21/ 8

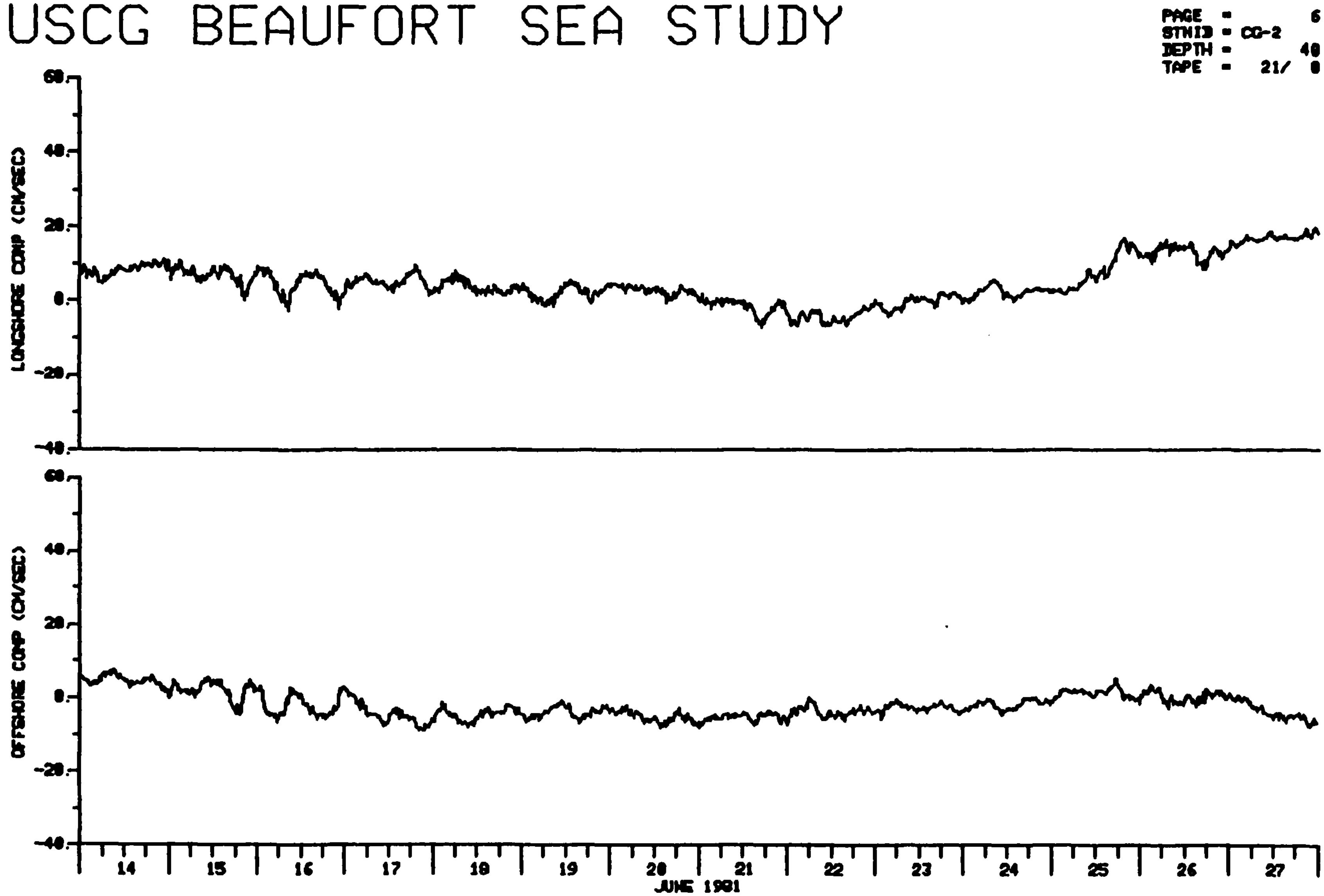


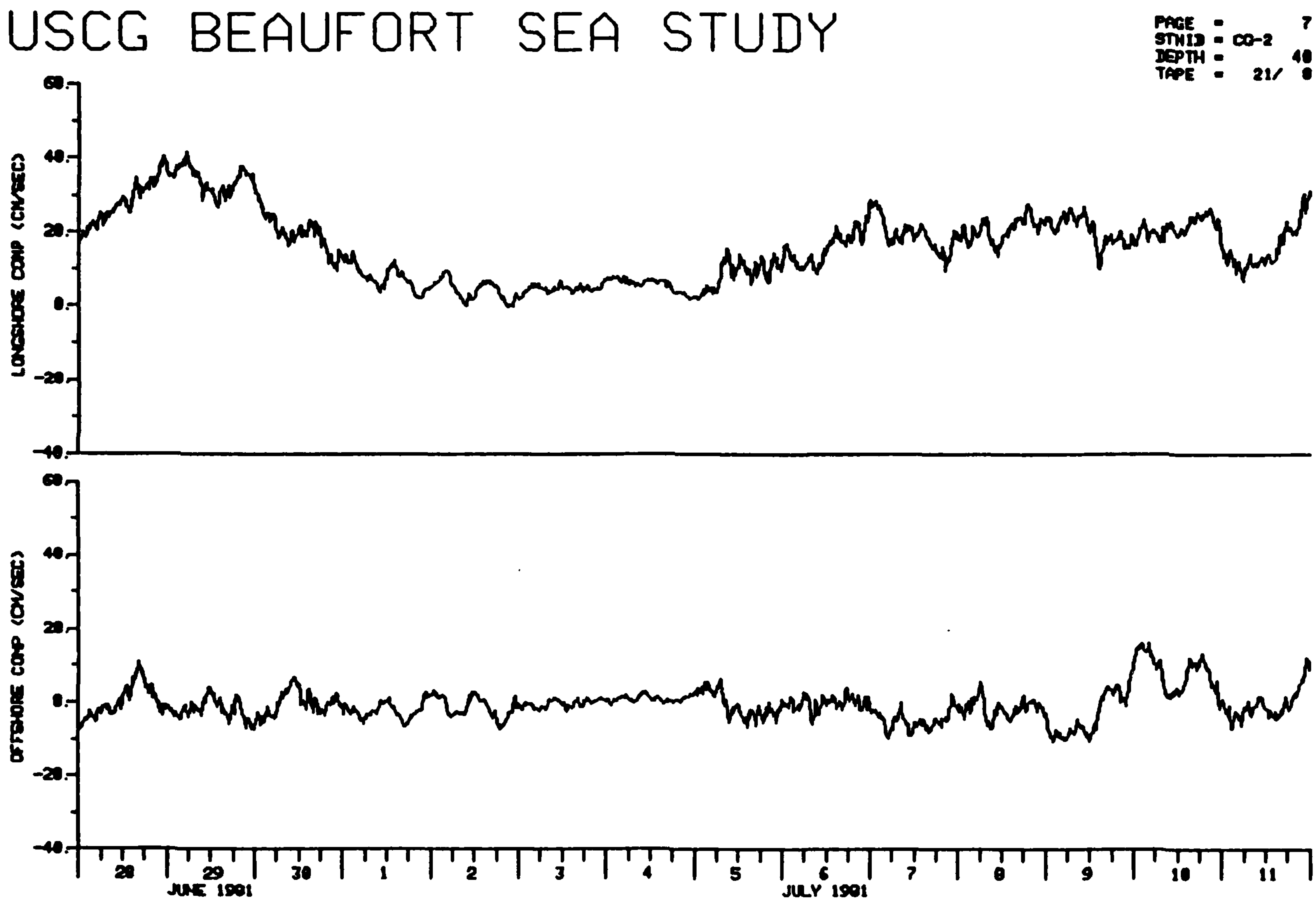
USCG BEAUFORT SEA STUDY

PAGE = 5
STNID = CO-2
DEPTH = 40
TAPE = 21/ 0



USCG BEAUFORT SEA STUDY

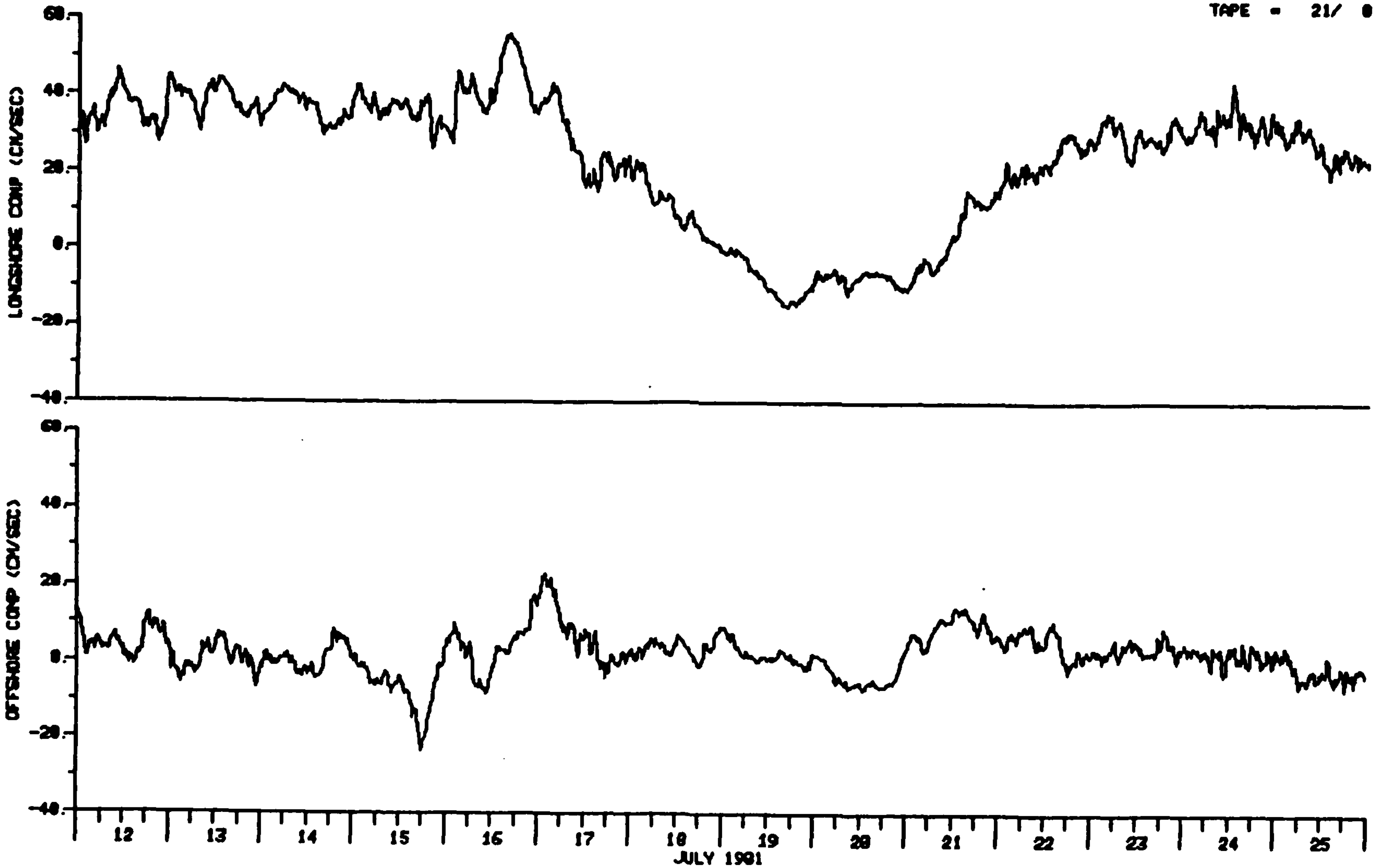




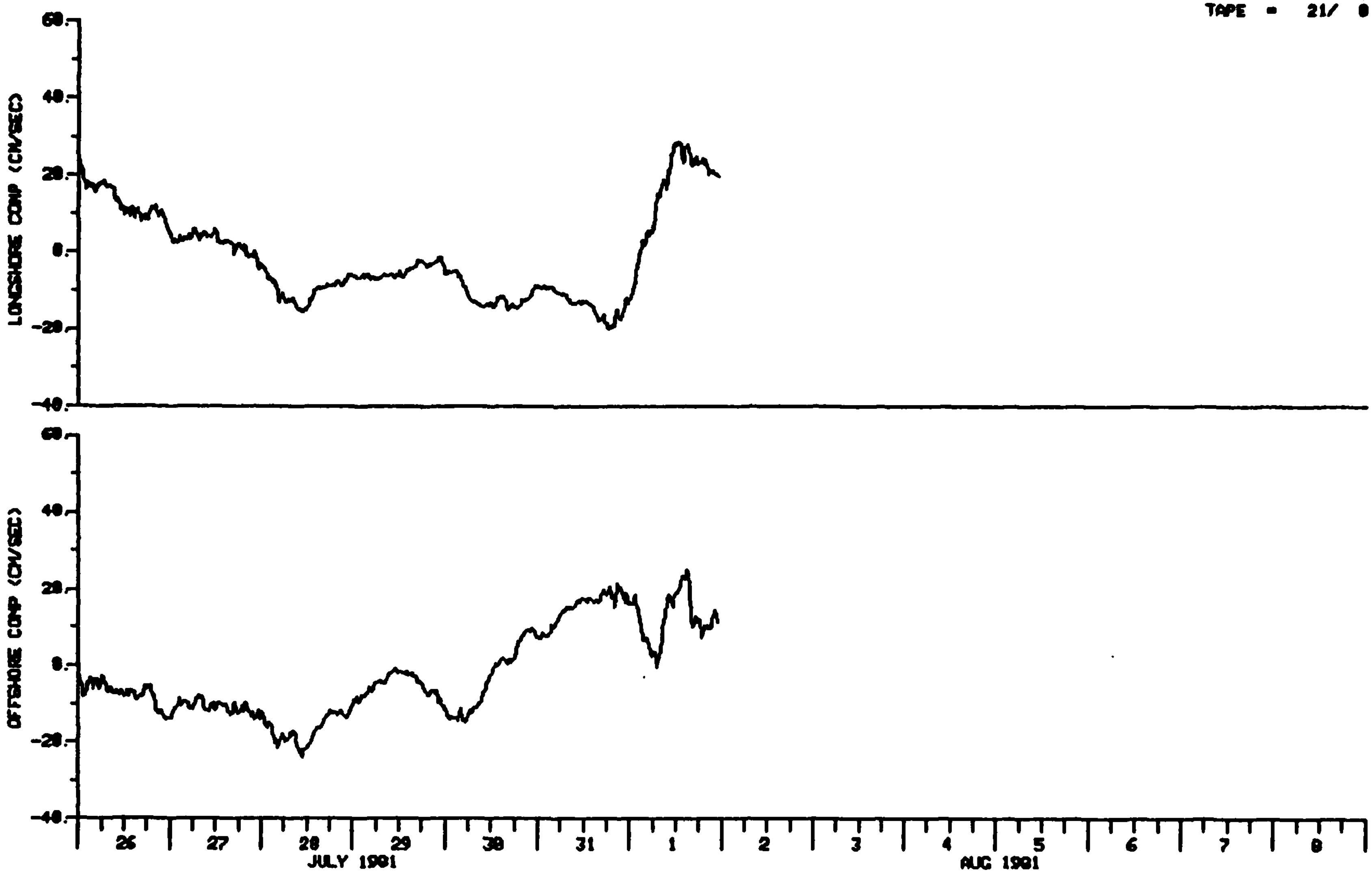
USCG BEAUFORT SEA STUDY
PAGE = 7
STNID = CO-2
DEPTH = 40
TAPE = 21/ 8
LONGSHORE COMP (CM/SEC)
OFFSHORE COMP (CM/SEC)
60
40
20
0
-20
-40
28
29
30
1
2
3
4
5
6
7
8
9
10
11
JUNE 1981
JULY 1981

USCG BEAUFORT SEA STUDY

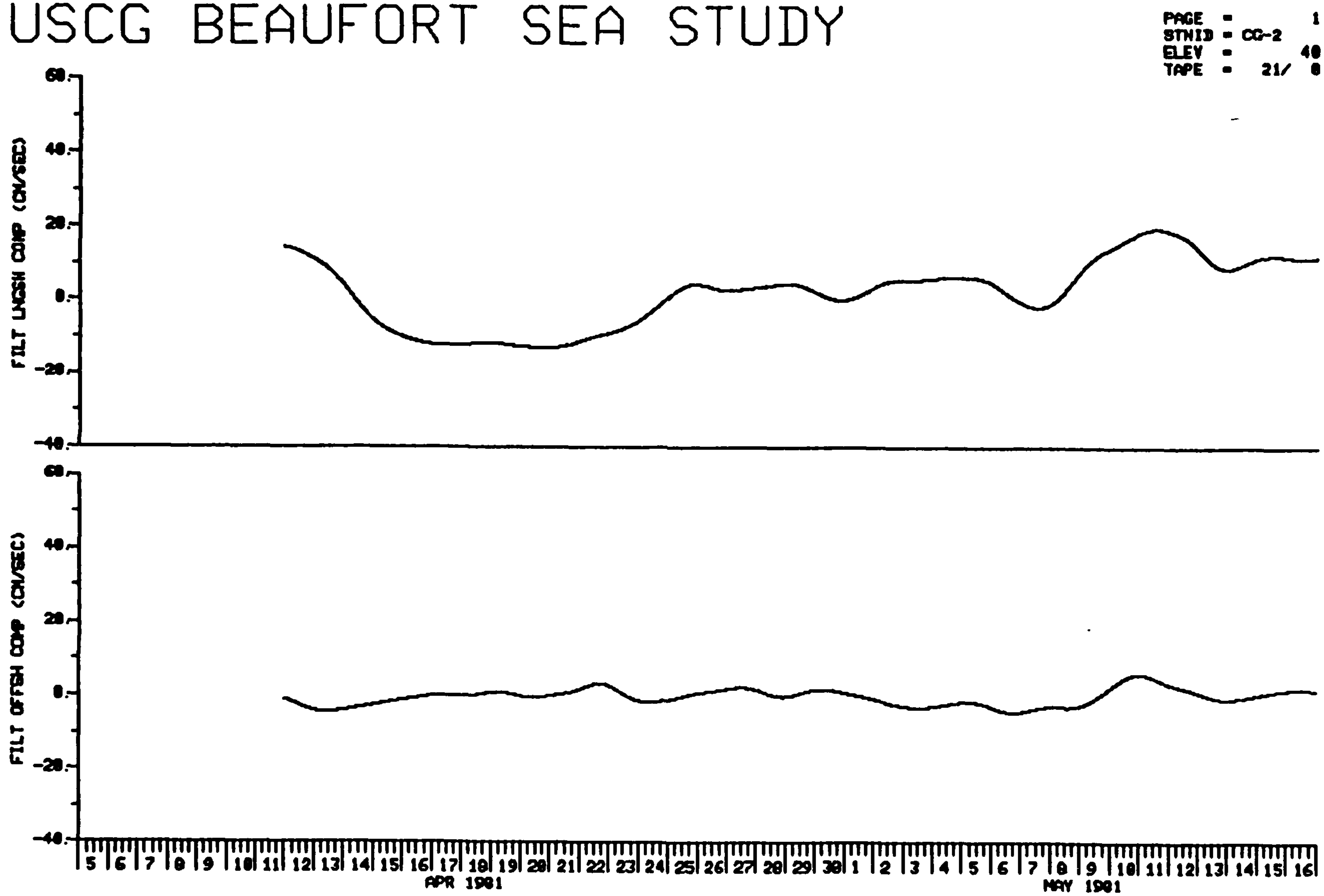
PAGE = 8
STNID = CG-2
DEPTH = 40
TAPE = 21/ 8



USCG BEAUFORT SEA STUDY

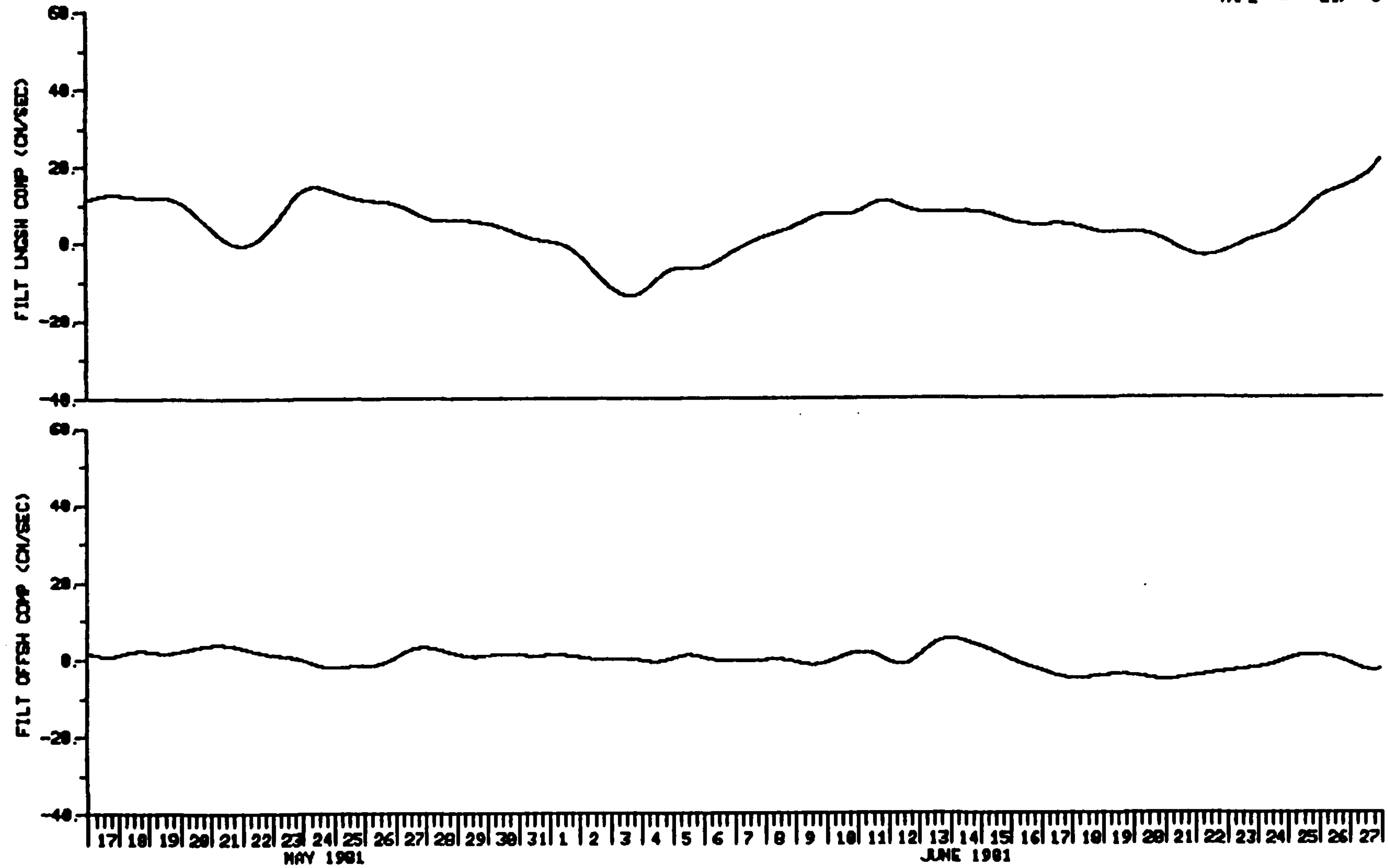


USCG BEAUFORT SEA STUDY



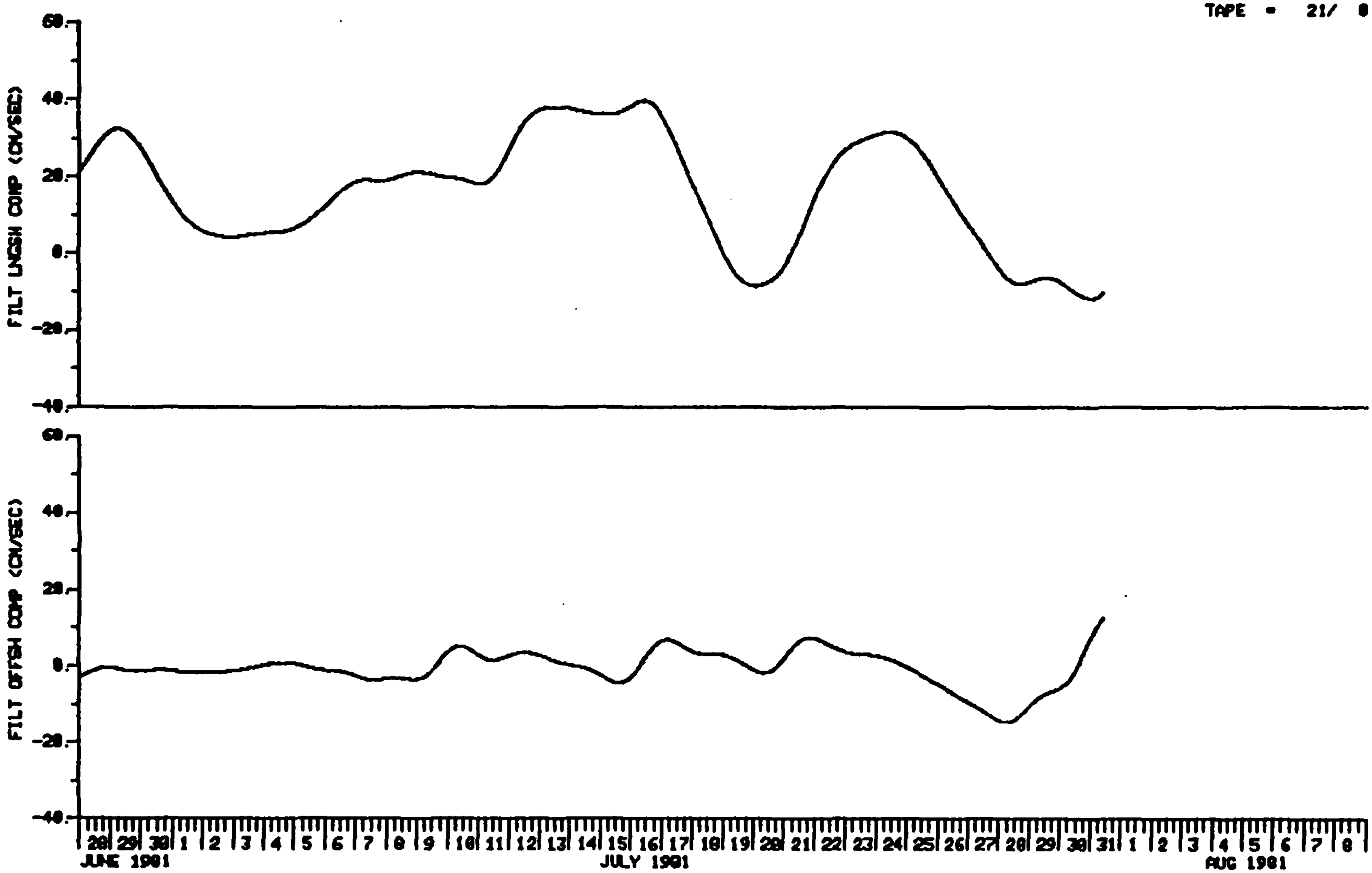
USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CG-2
ELEV = 40
TAPE = 21/ 0



USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CG-2
ELEV = 40
TAPE = 21/ 8



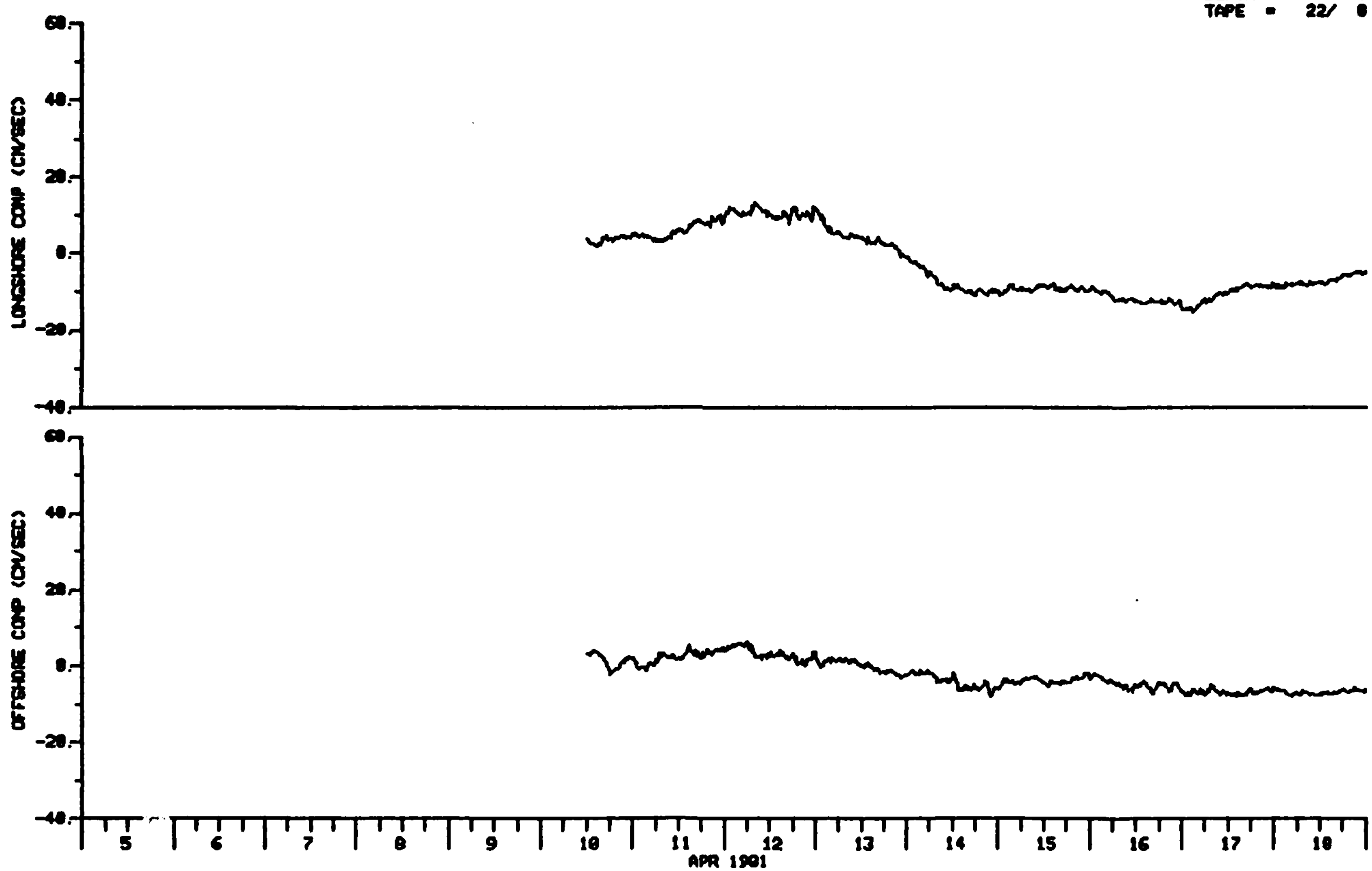
CG22

268 m depth
70° 56.4' N   146° 00.6' W
10 April 1981 to 3 June 1981
Longshore direction is 118° T
Offshore direction is 028° T

Filter is 25 hour low pass
$A_{24}^{2} A_{25}$ (Godin, 1972)

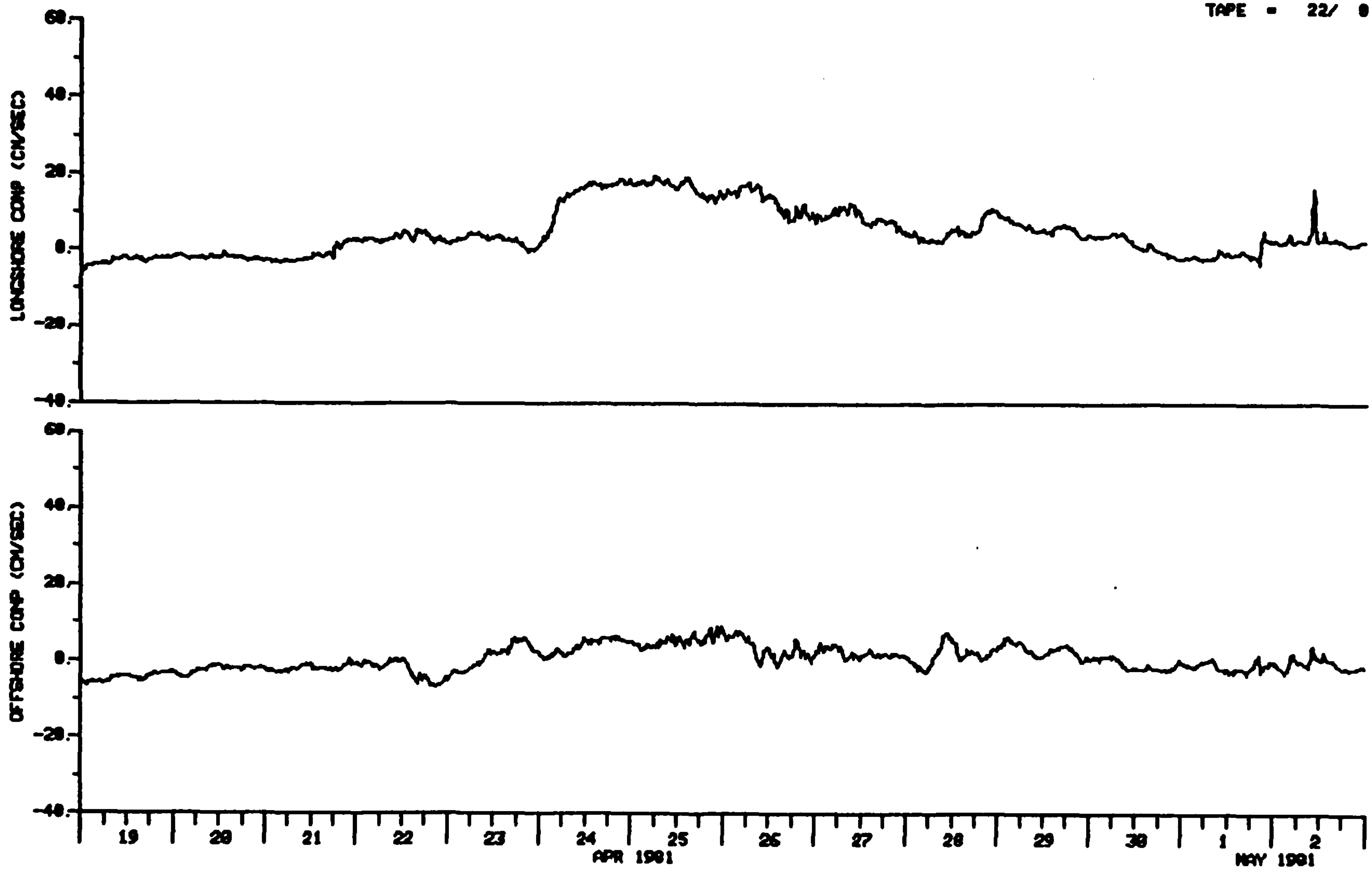
USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CG-2
DEPTH = 268
TAPE = 22/ 8



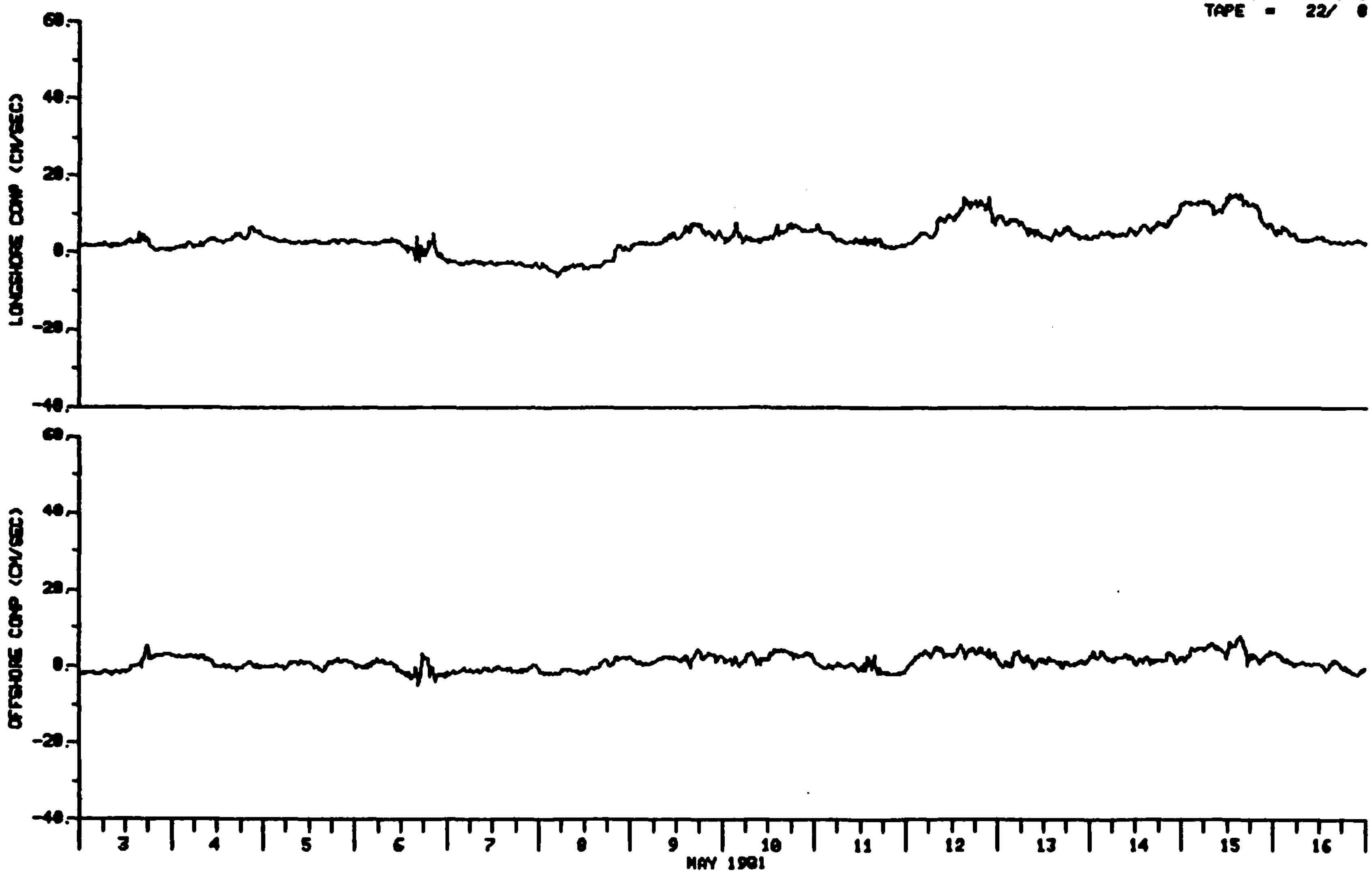
USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CO-2
DEPTH = 260
TAPE = 22/ 0



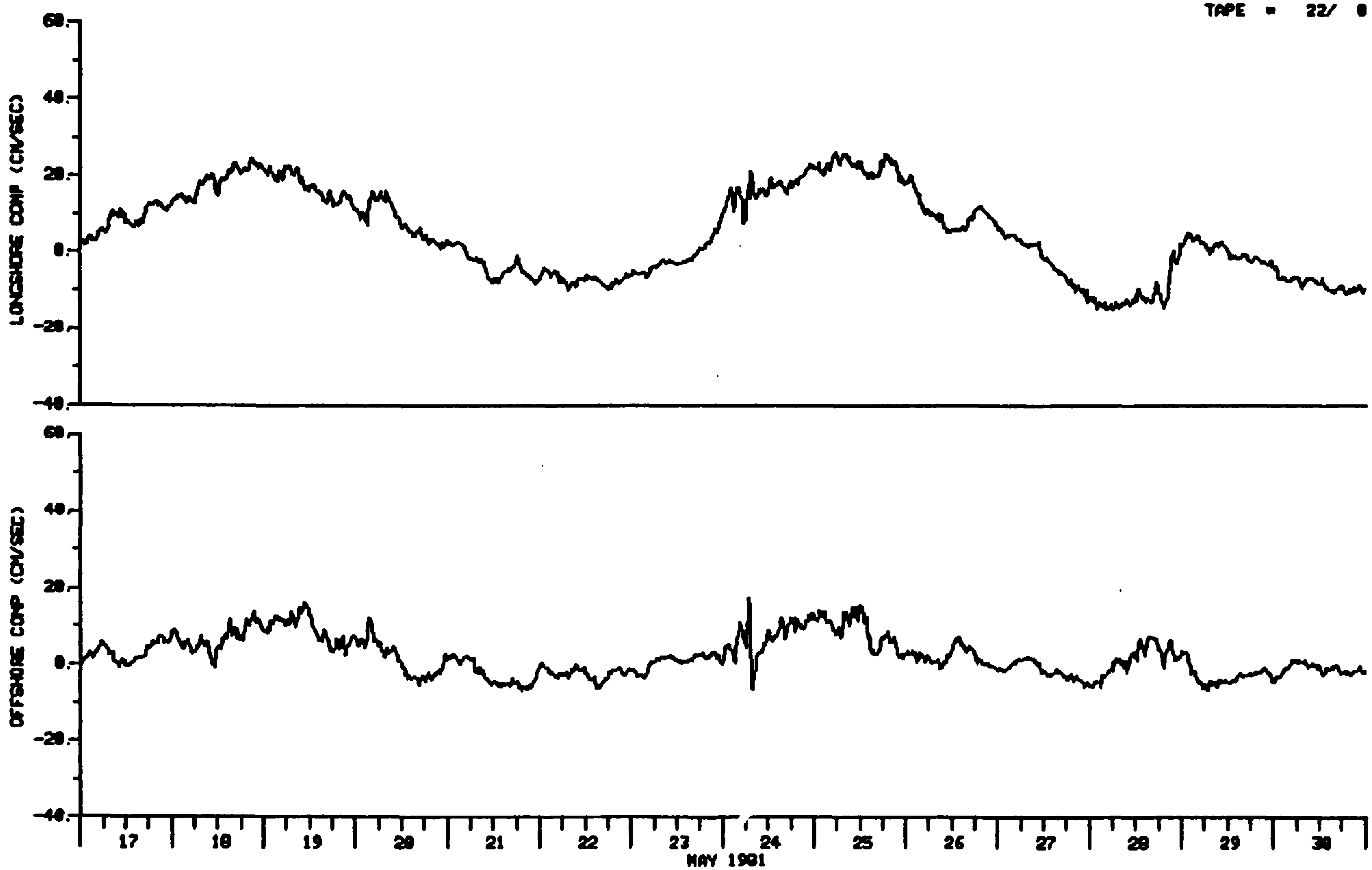
USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CG-2
DEPTH = 260
TAPE = 22/ 0



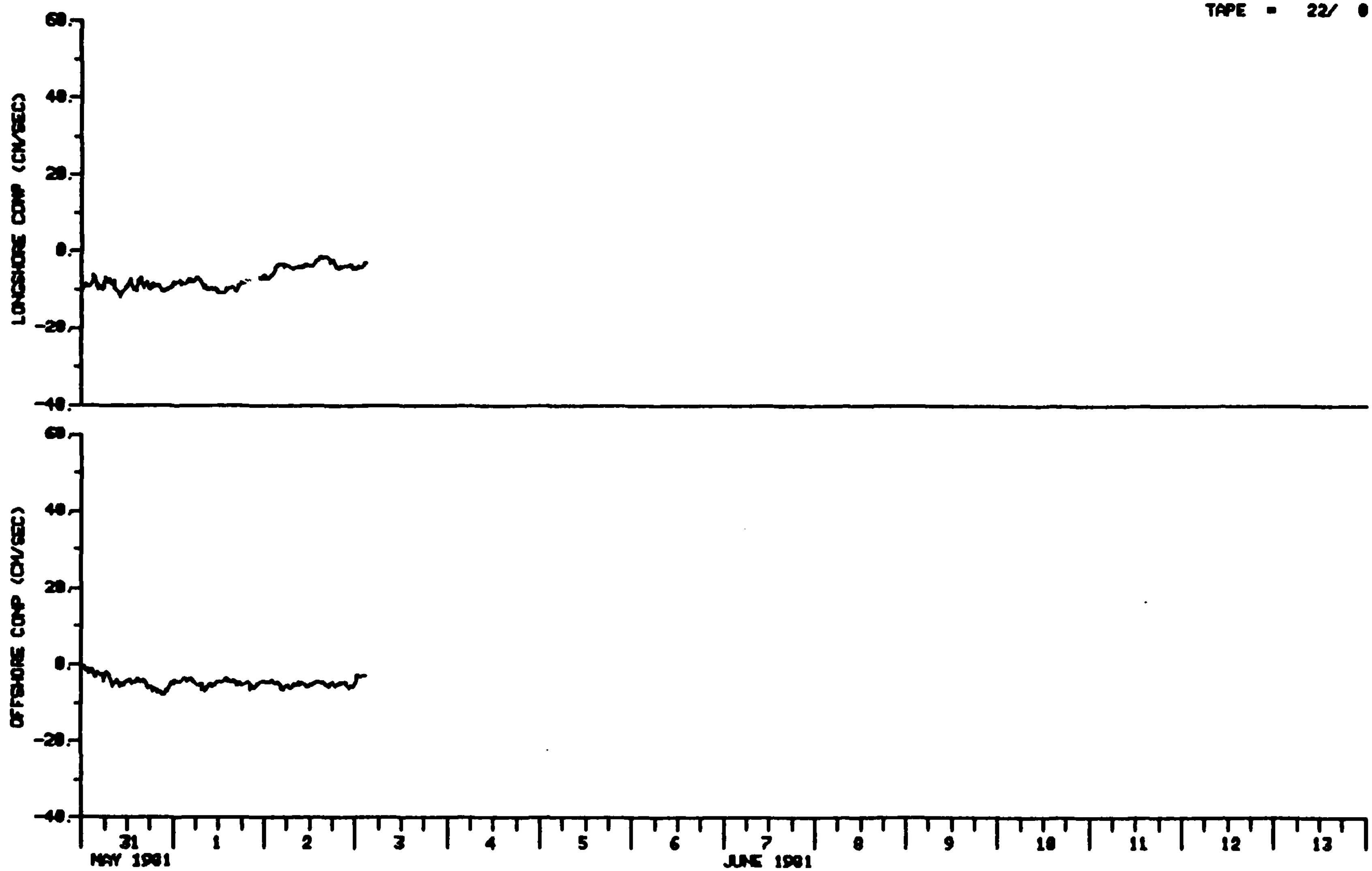
USCG BEAUFORT SEA STUDY

PAGE = 4
STNID = CG-2
DEPTH = 260
TAPE = 22/ 8



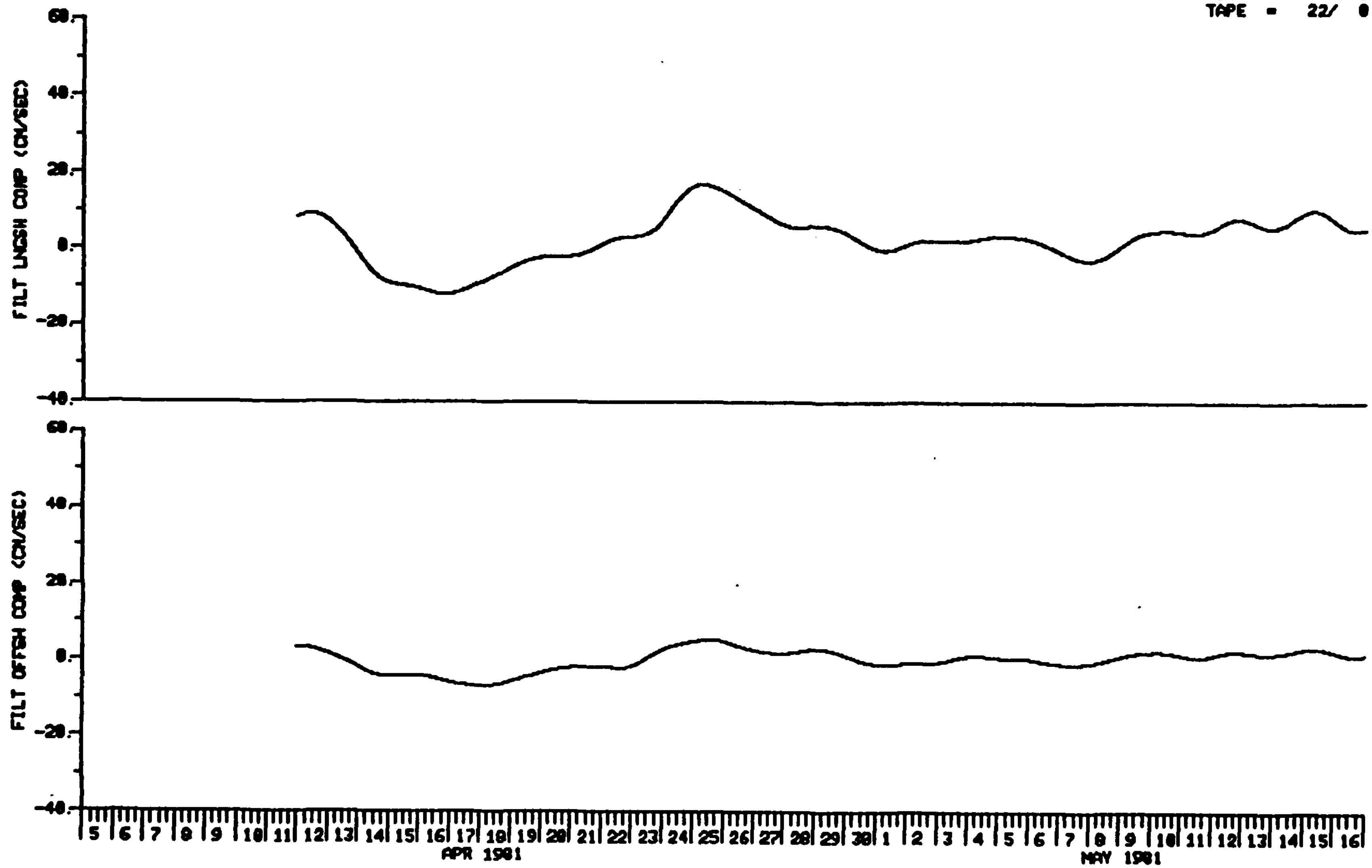
USCG BEAUFORT SEA STUDY

PAGE = 5
STNID = CG-2
DEPTH = 260
TAPE = 22/ 0



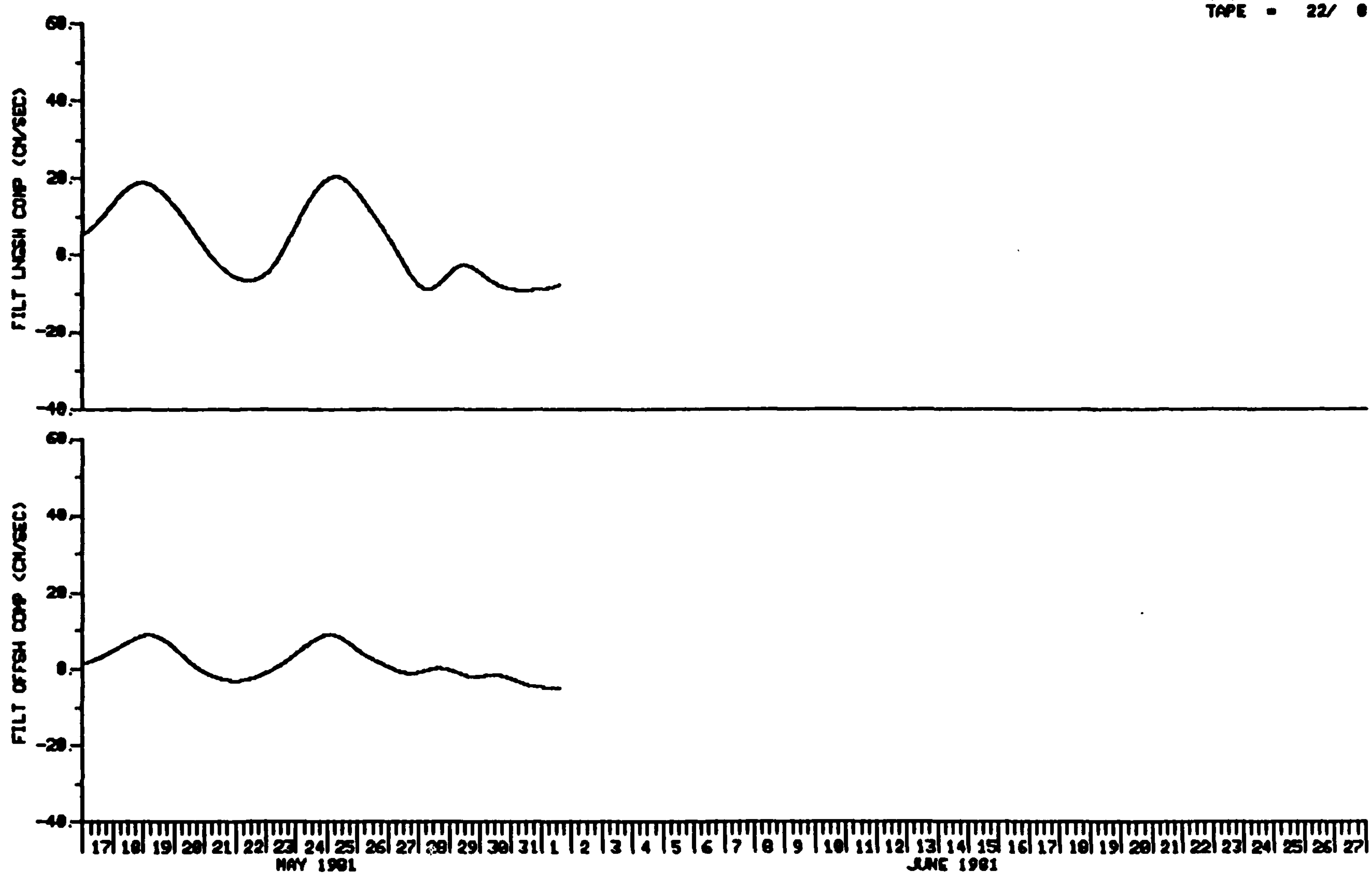
USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CG-2
ELEV = 260
TAPE = 22/ 0



USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CG-2
ELEV = 260
TAPE = 22/ 8



CG31

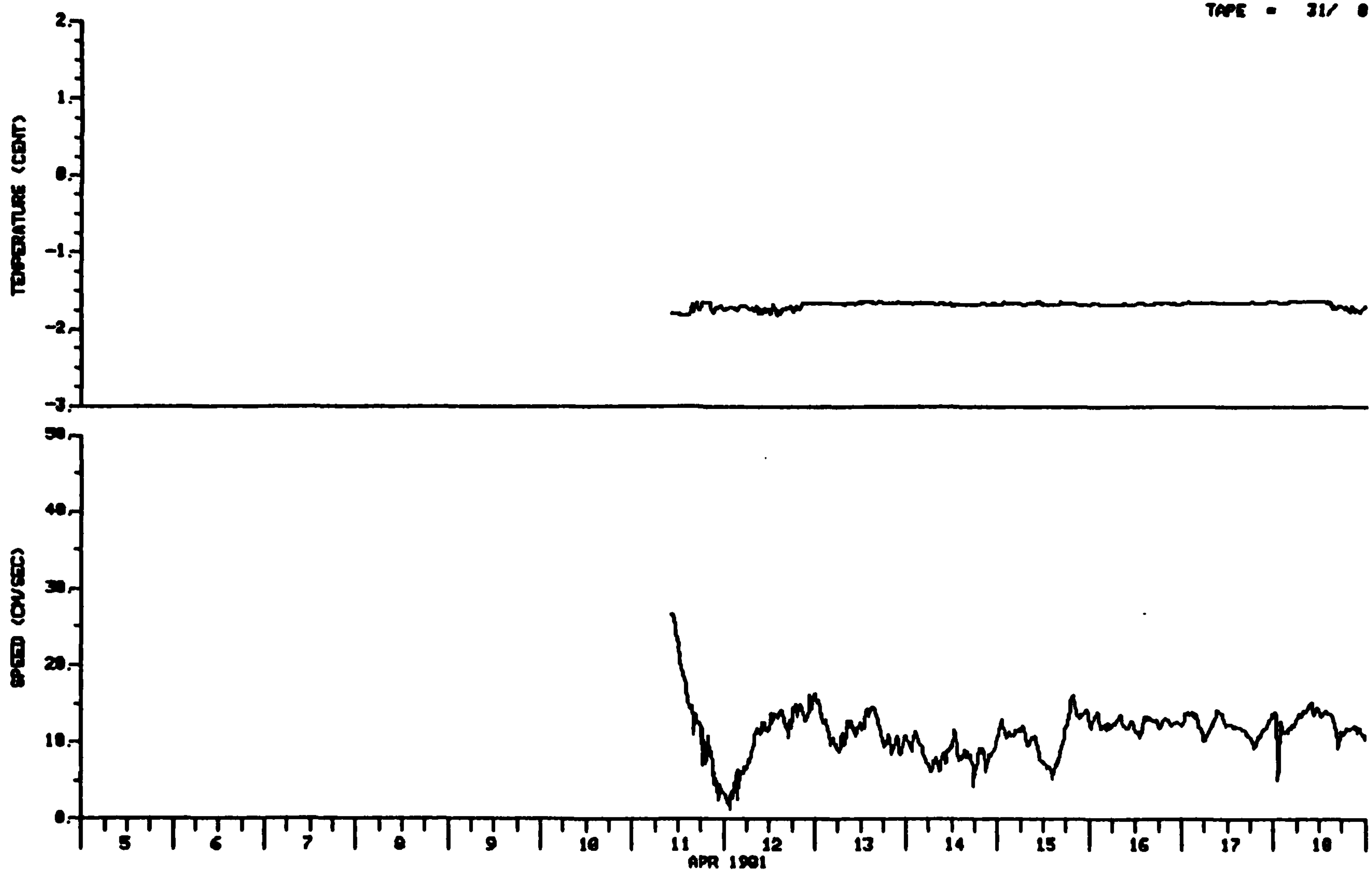
40 m depth
70° 56.4' N   146° 00.6' W
11 April 1981 to 2 August 1981

Filter is 25 hour low pass
$A_{24}^{2} A_{25}$ (Godin, 1972)

Note: Temperature and speed are plotted due to compass failure on this instrument.

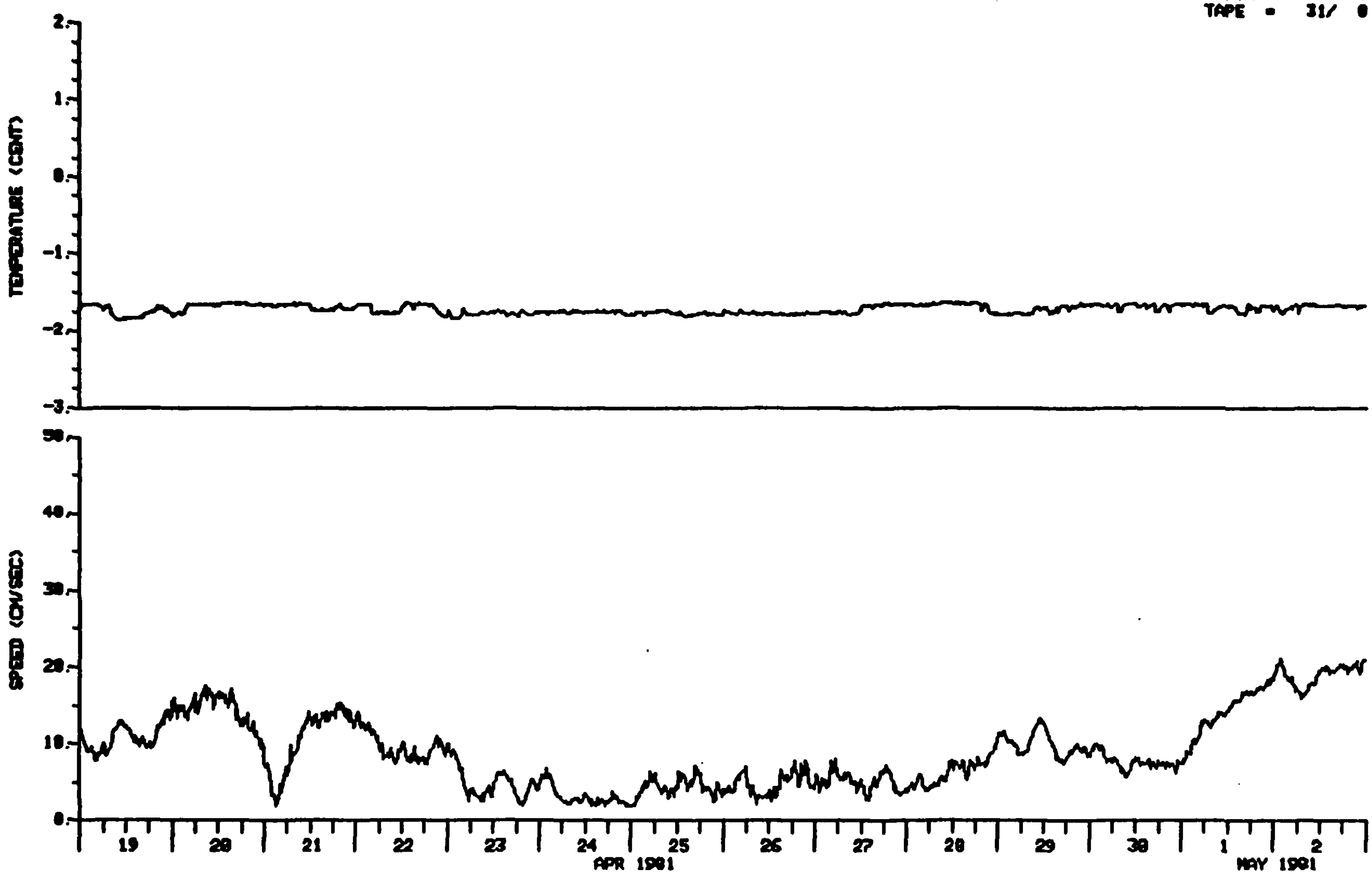
USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CG-3
DEPTH = 40
TAPE = 31/ 8



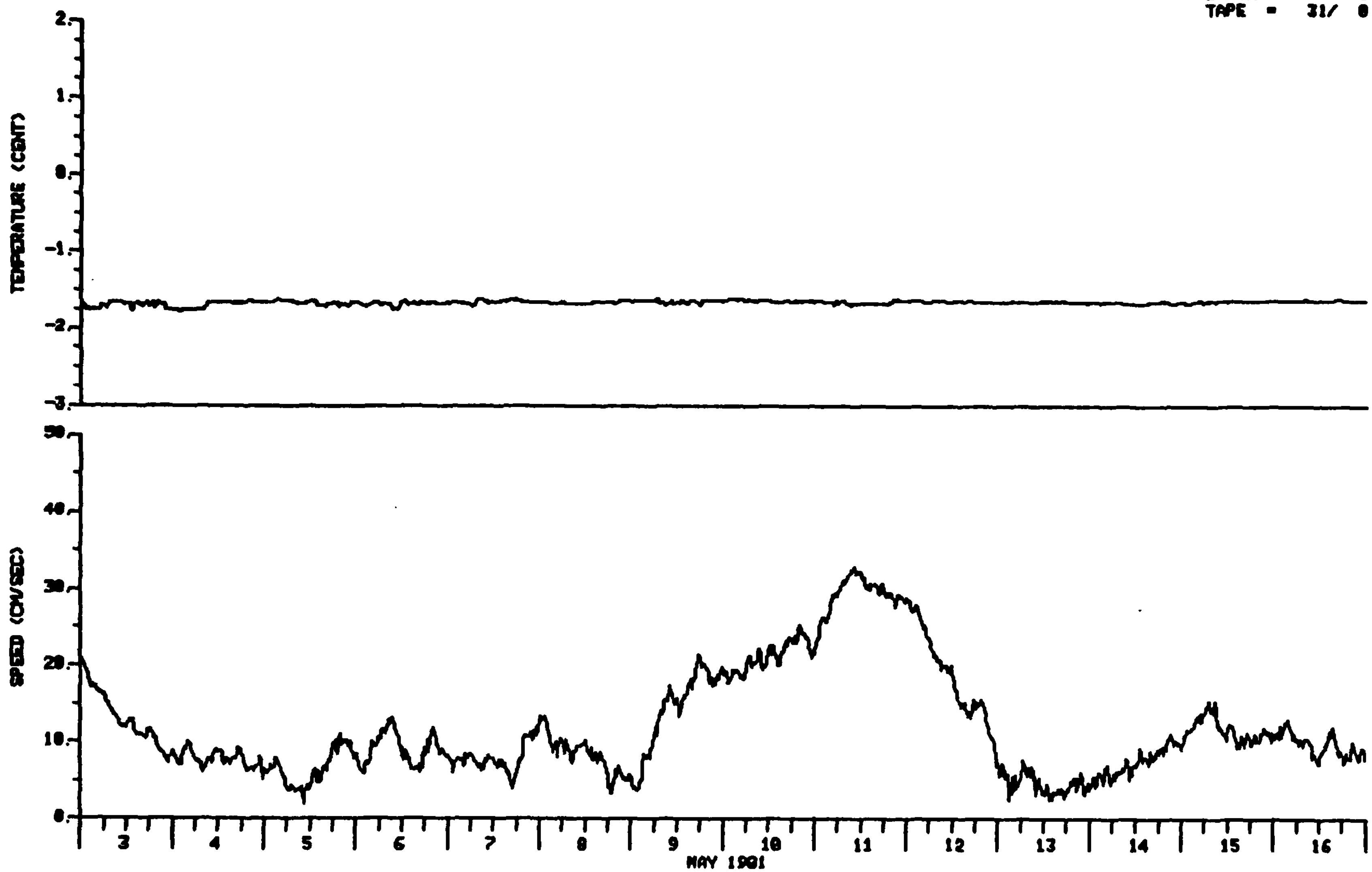
USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CG-3
DEPTH = 40
TAPE = 31/ 0



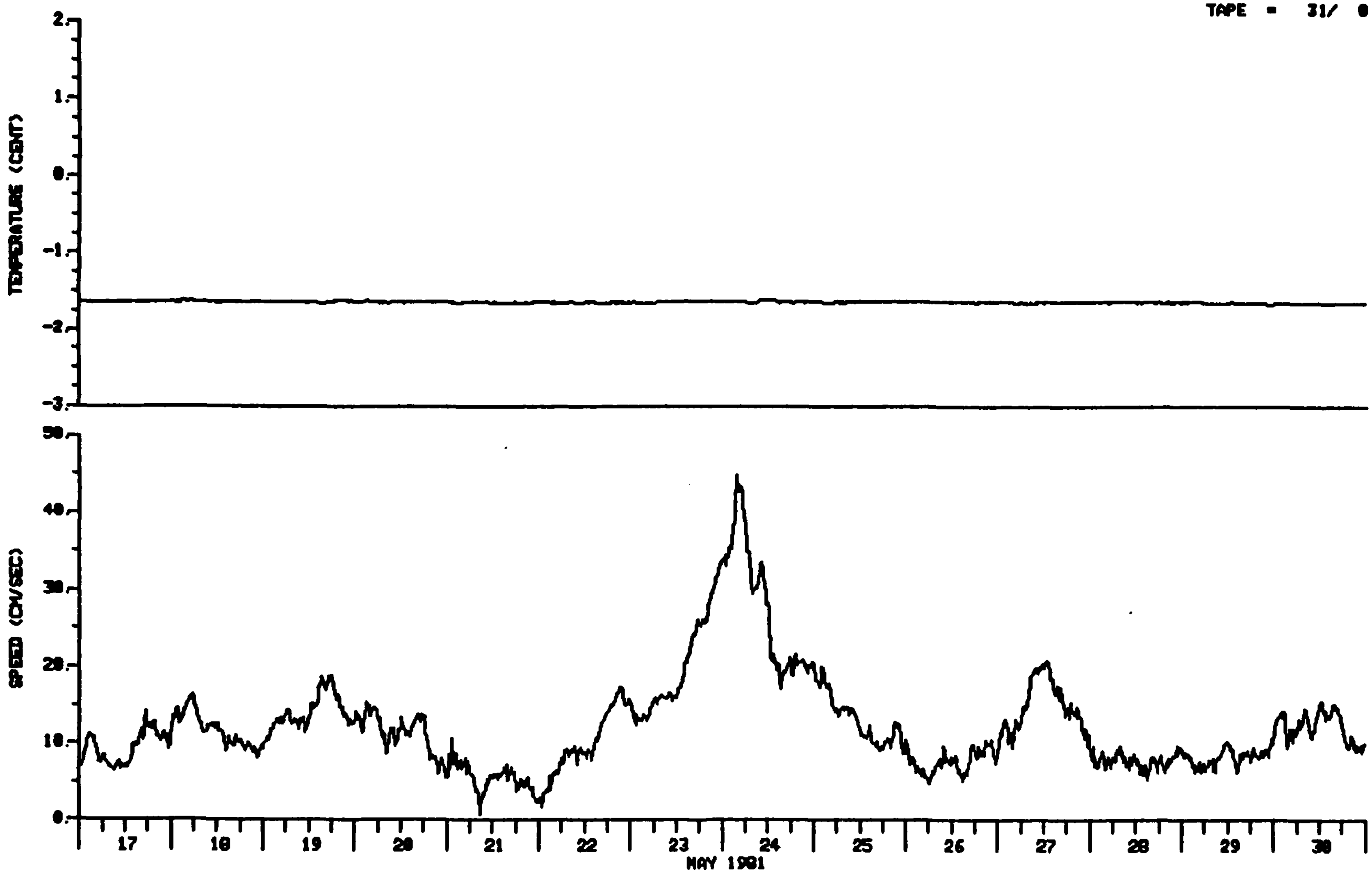
USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CO-3
DEPTH = 40
TAPE = 31/ 8



USCG BEAUFORT SEA STUDY

PAGE = 4
STNID = CG-3
DEPTH = 40
TAPE = 31/ 0



USCG BEAUFORT SEA STUDY

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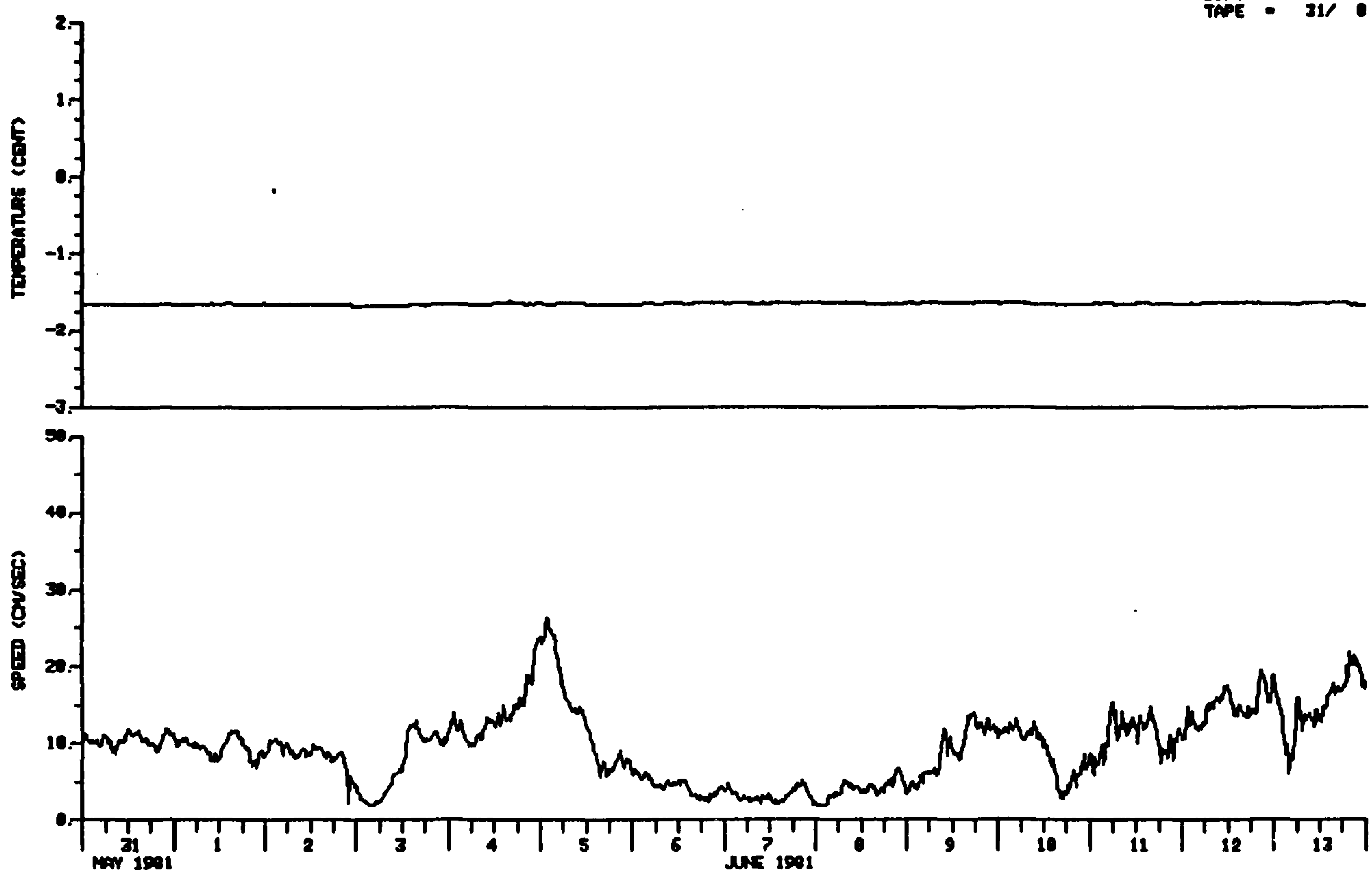
STNID = CQ-3
DEPTH = 40
TAPE = 31/ 8



USCG BEAUFORT SEA STUDY

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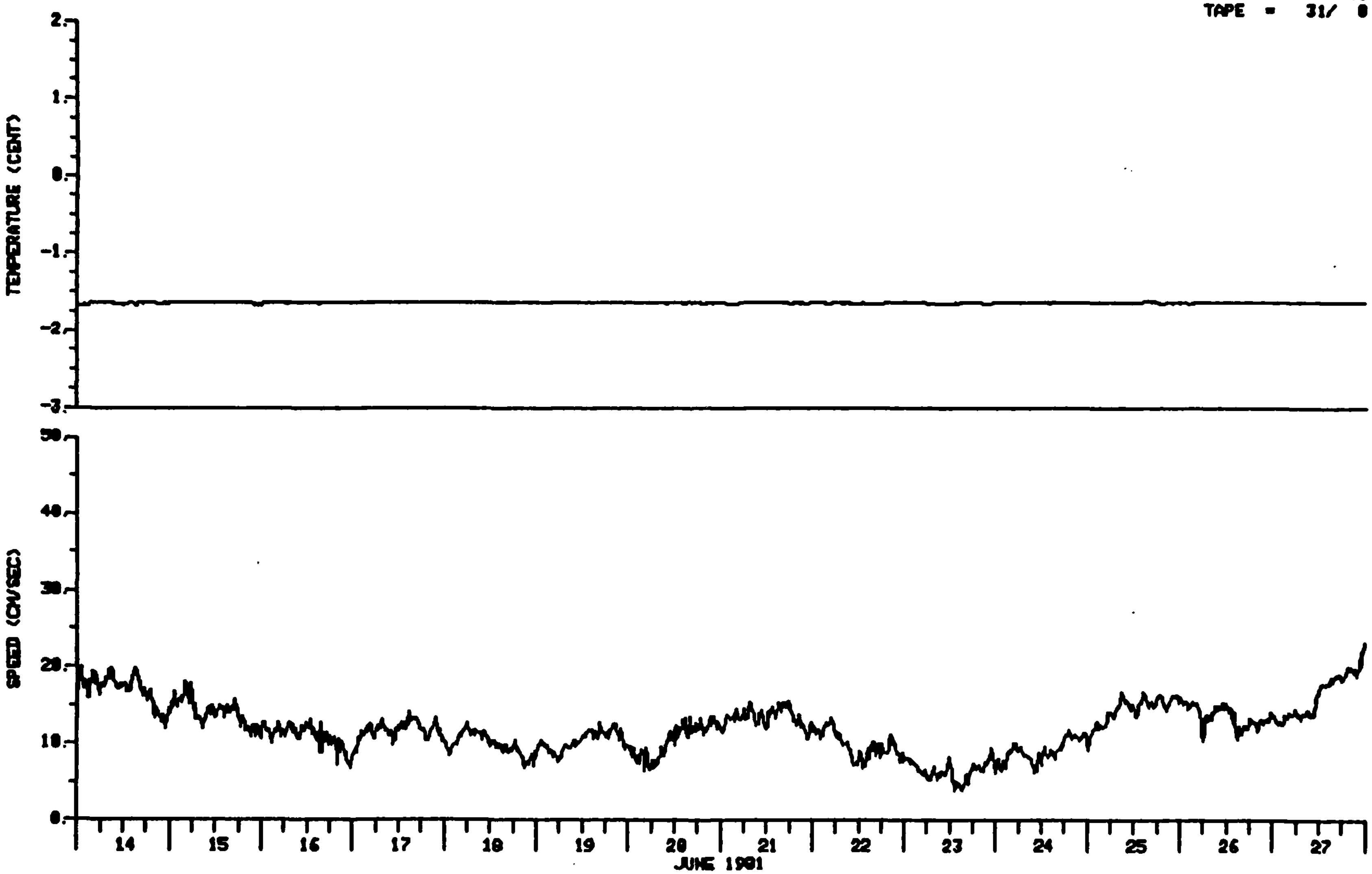
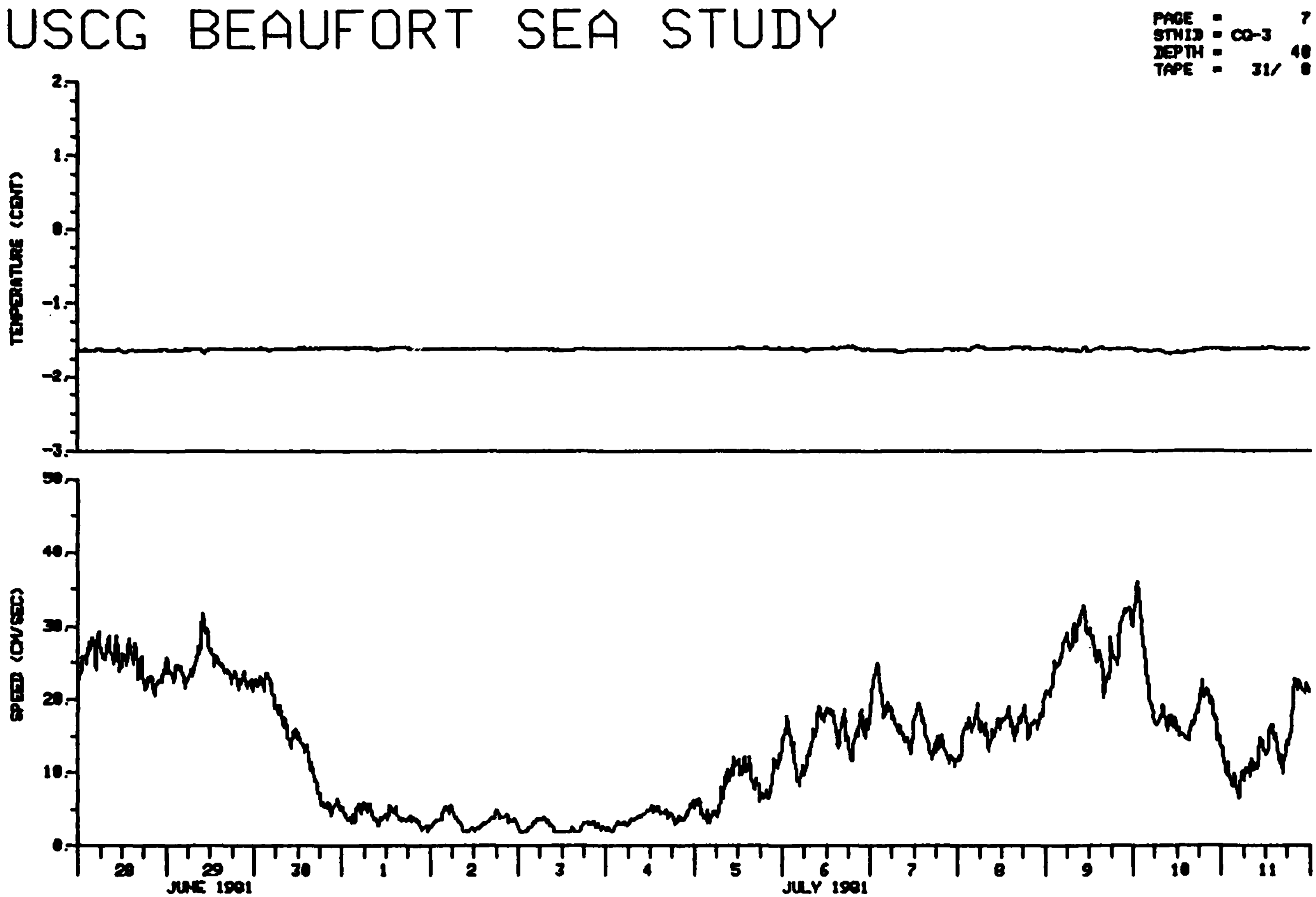
STNID = CG-3
DEPTH = 40
TAPE = 31/ 0

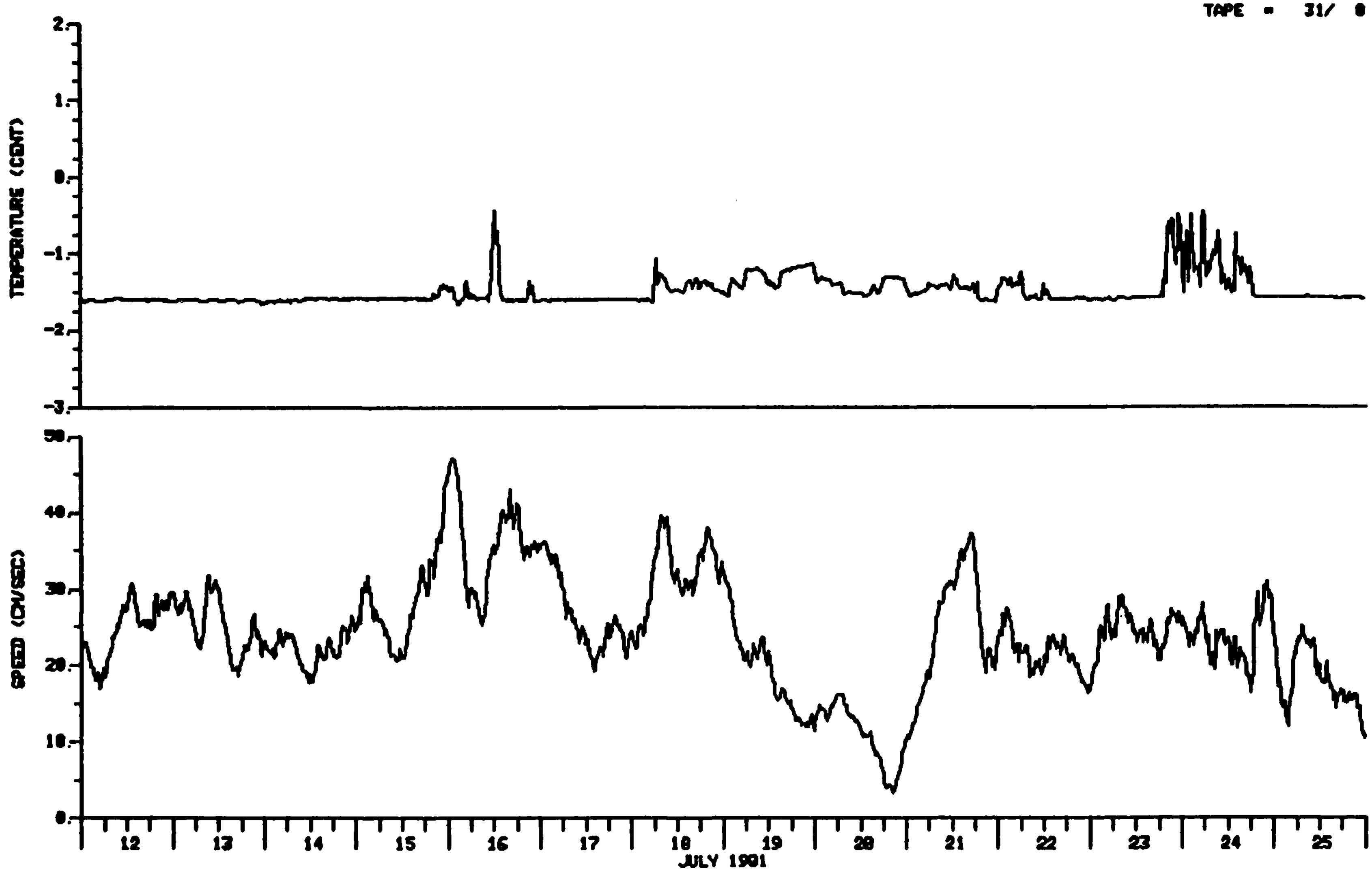


USCG BEAUFORT SEA STUDY



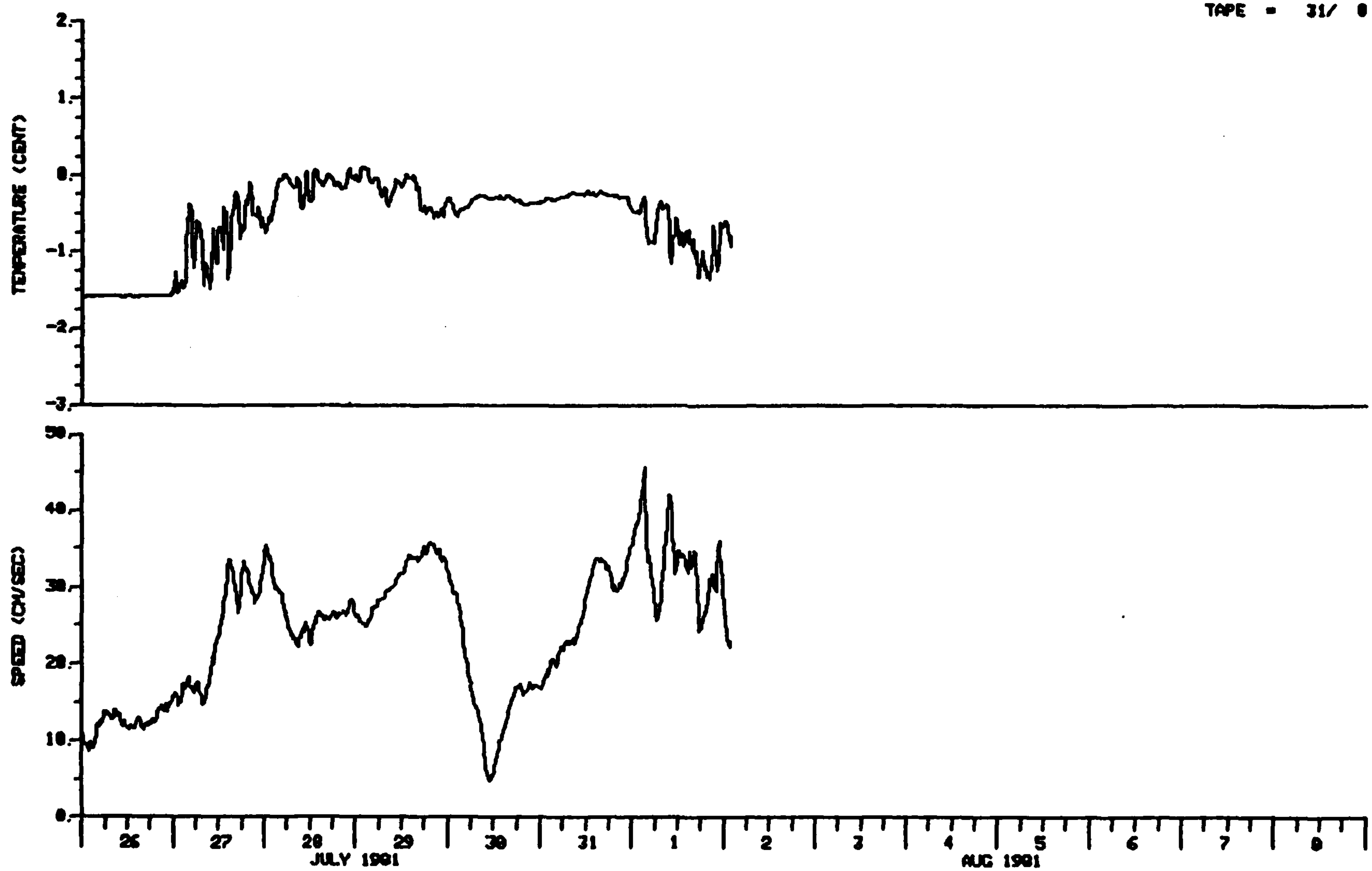
USCG BEAUFORT SEA STUDY

PAGE = 8
STNID = CG-3
DEPTH = 40
TAPE = 31/ 8



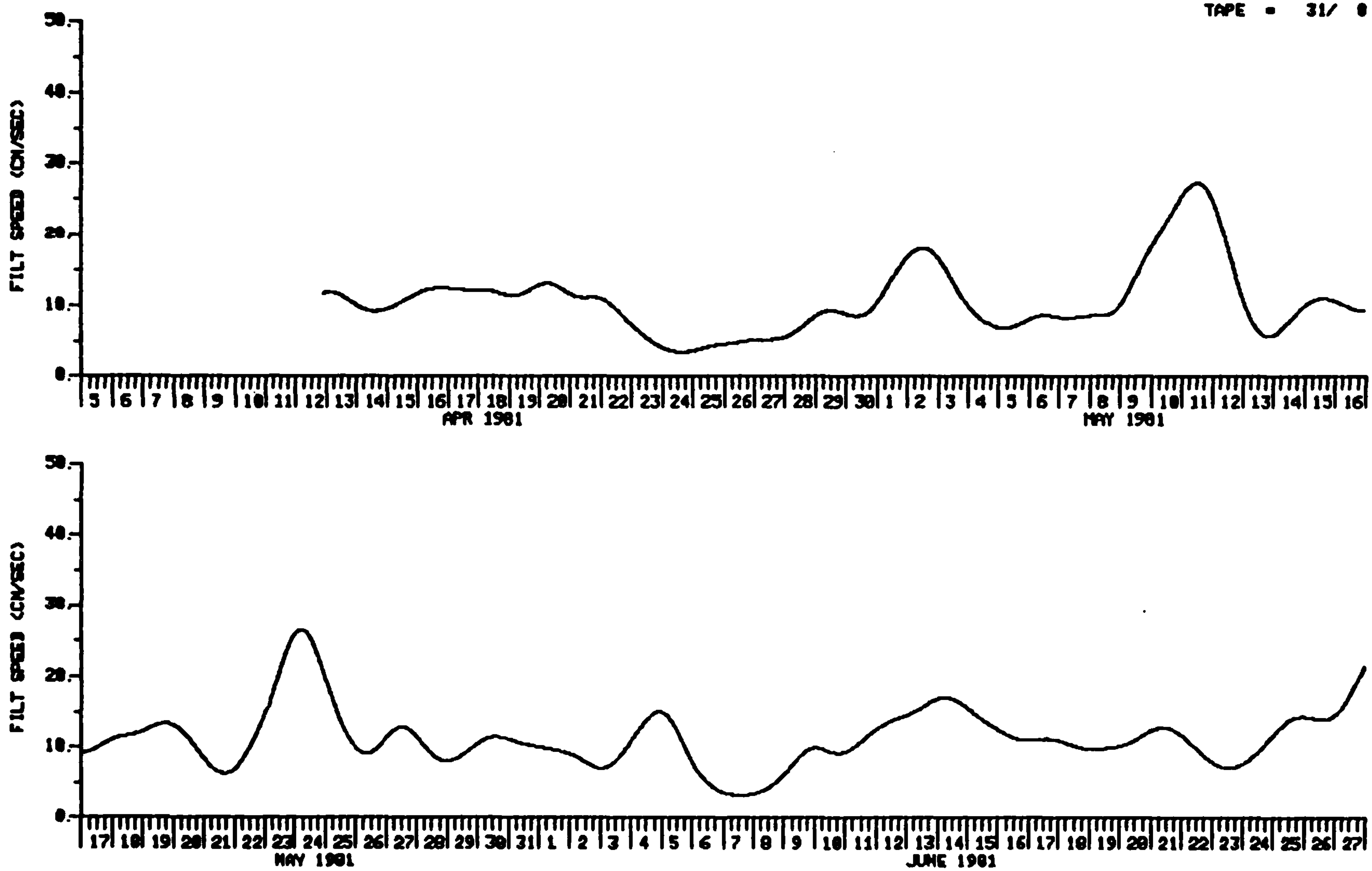
USCG BEAUFORT SEA STUDY

PAGE = 9
STNID = CO-3
DEPTH = 40
TAPE = 31/ 8



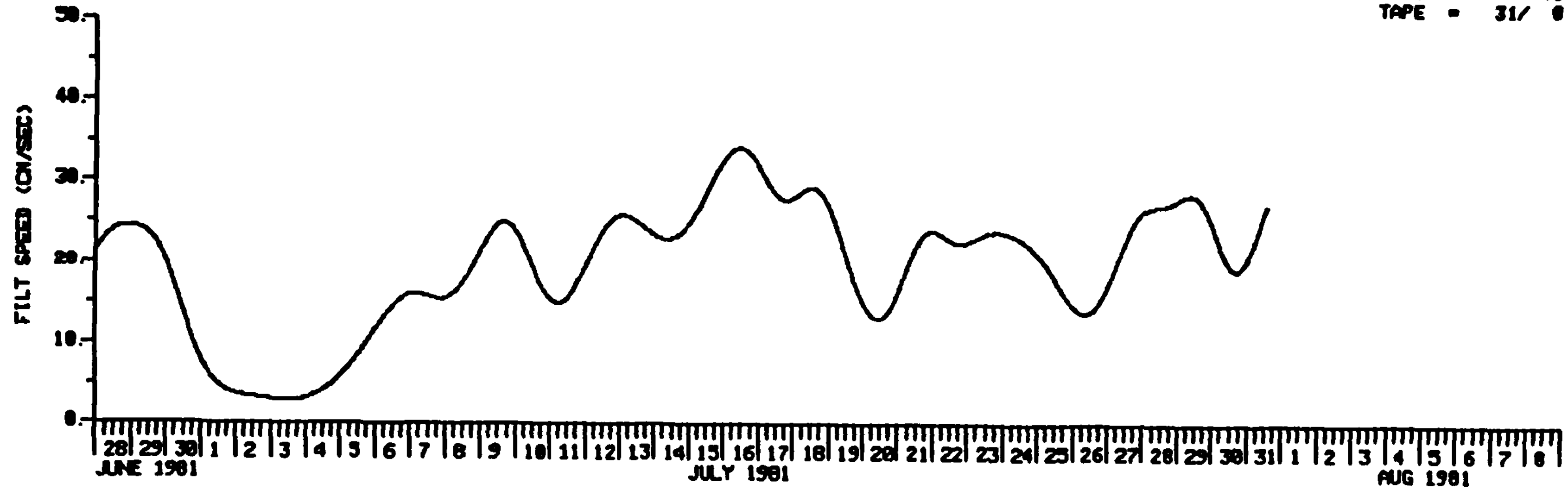
USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CG-3
ELEV = 40
TAPE = 31/ 8



USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CG-3
ELEV = 40
TAPE = 31/ 0



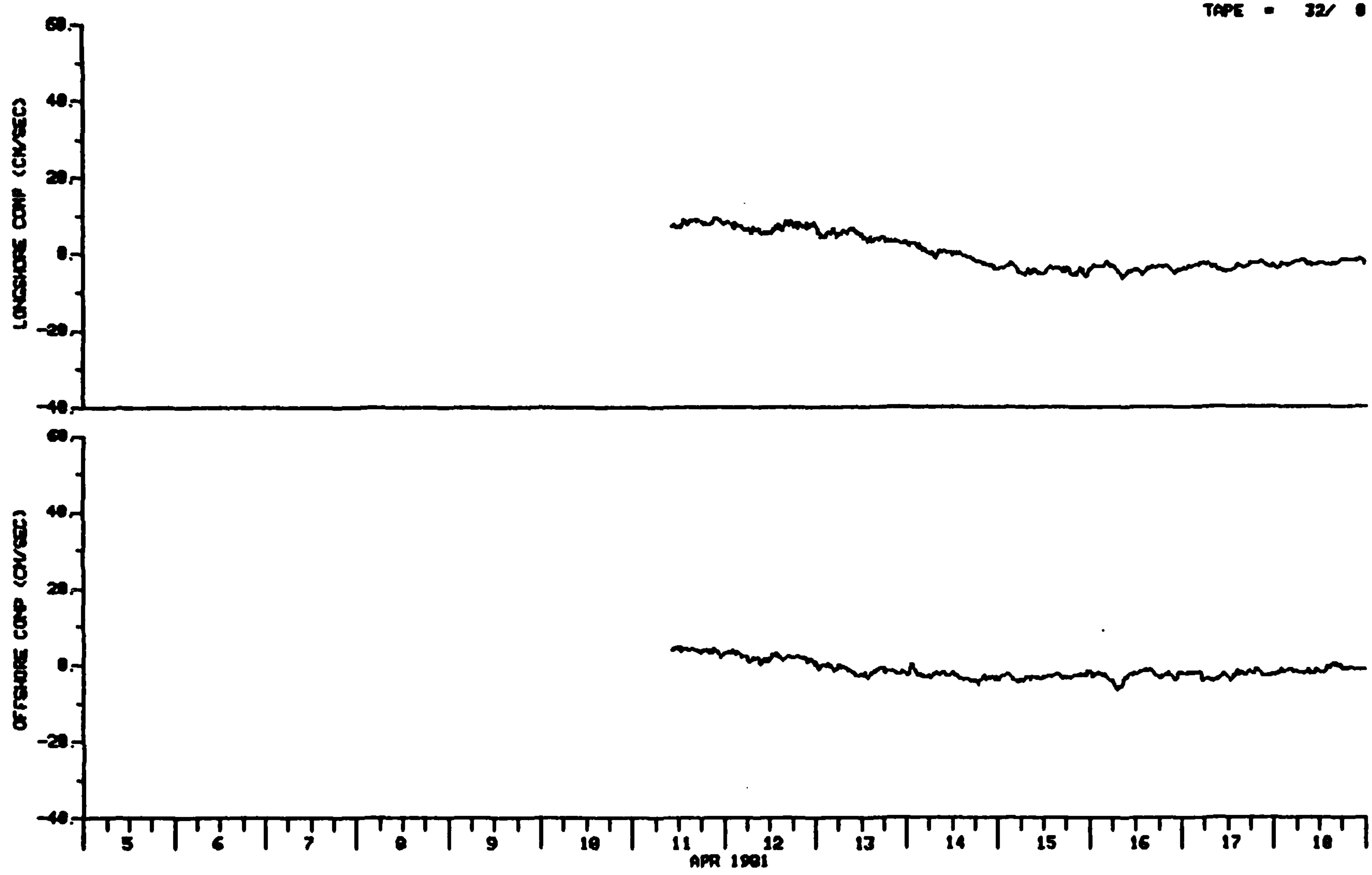
CG32

268 m depth
70° 57.8' N   146° 02.9' W
11 April 1981 to 2 August 1981
Longshore direction is 118° T
Offshore direction is 028° T

Filter is 25 hour low pass
$A_{24}^2 A_{25}$ (Godin, 1972)

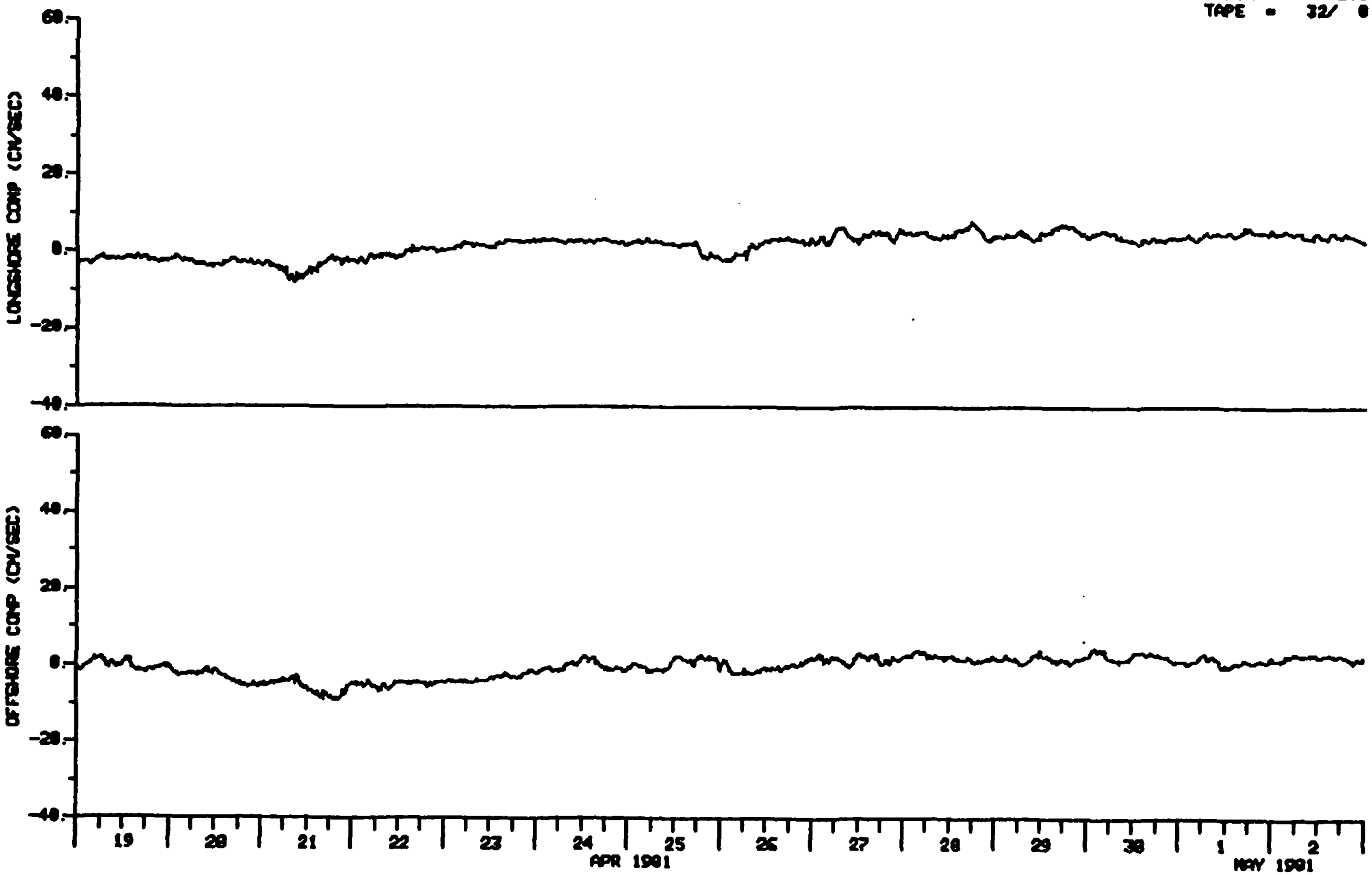
USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CO-3
DEPTH = 268
TAPE = 32/ 8



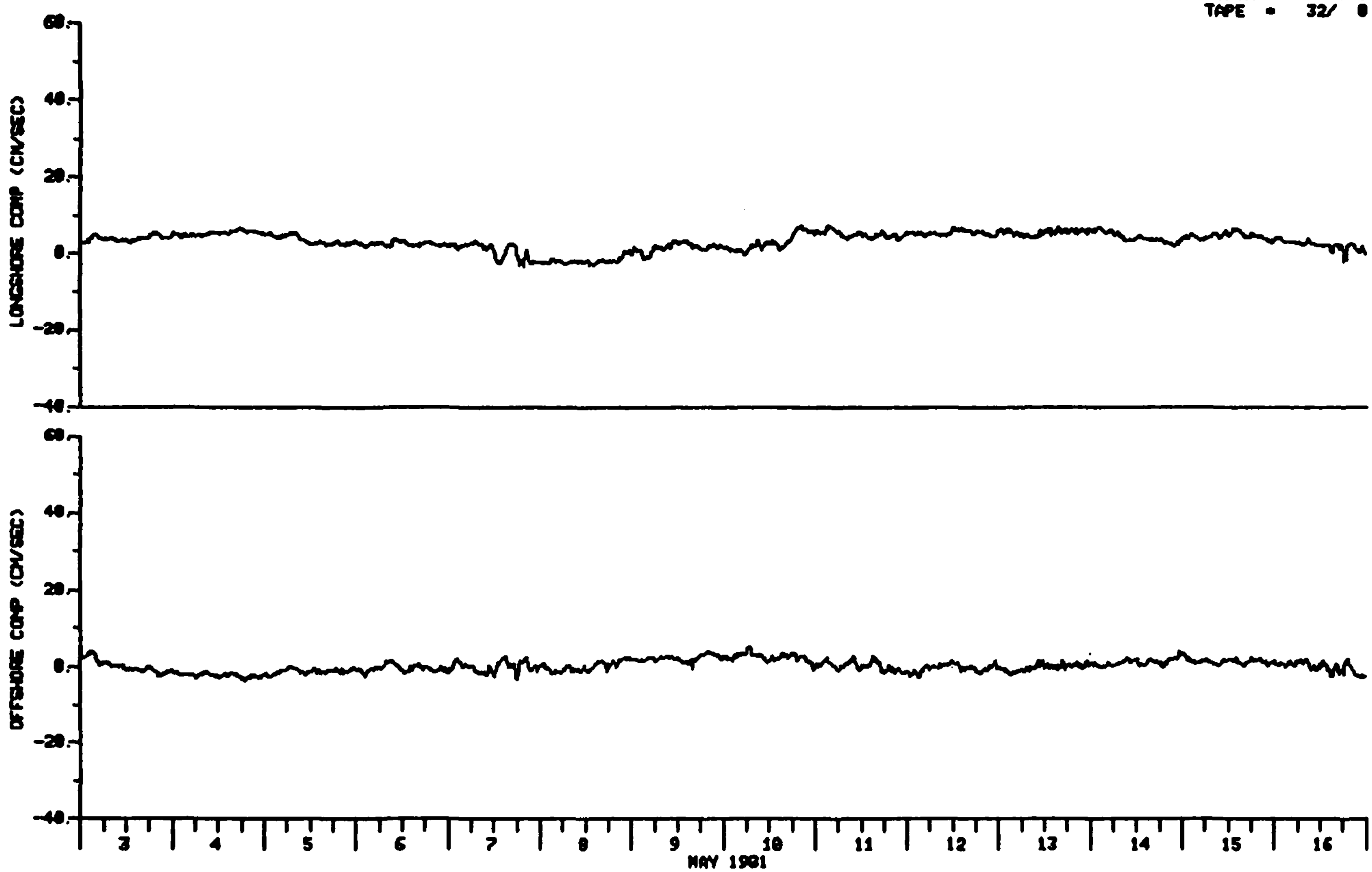
USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CQ-3
DEPTH = 260
TAPE = 32/ 0



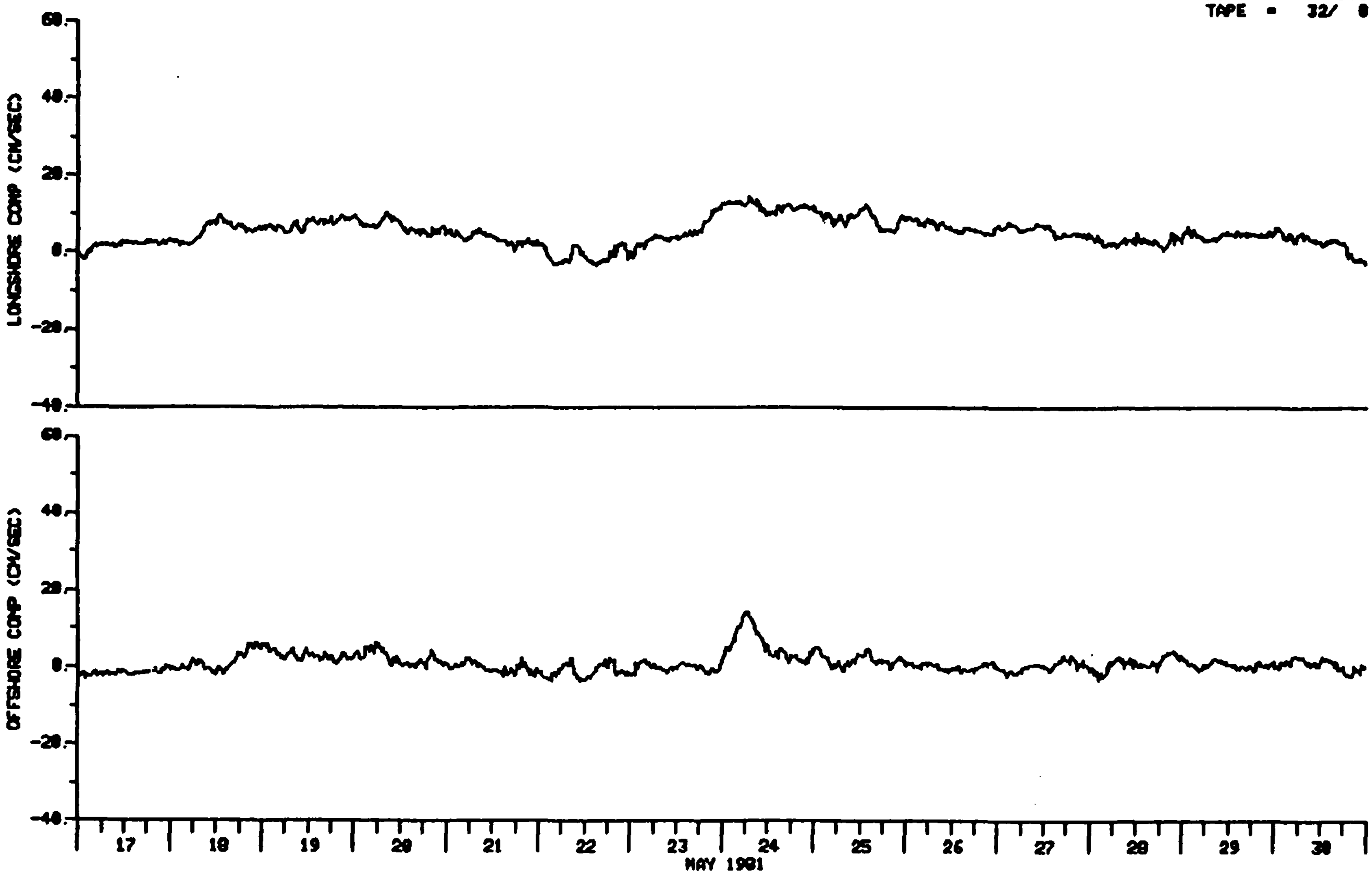
USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CG-3
DEPTH = 268
TAPE = 32/ 8

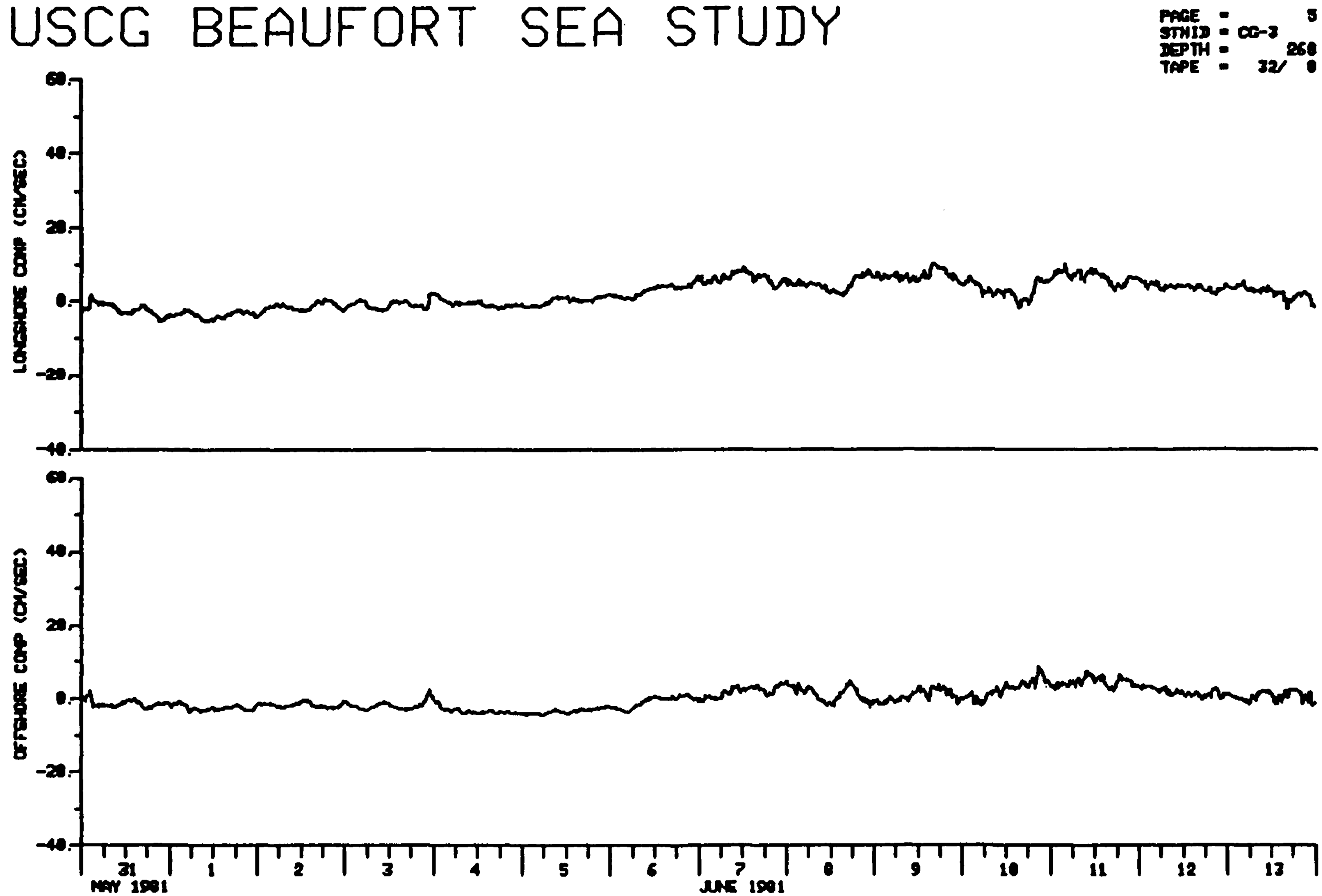


USCG BEAUFORT SEA STUDY

PAGE = 4
STNID = CG-3
DEPTH = 260
TAPE = 32/ 8

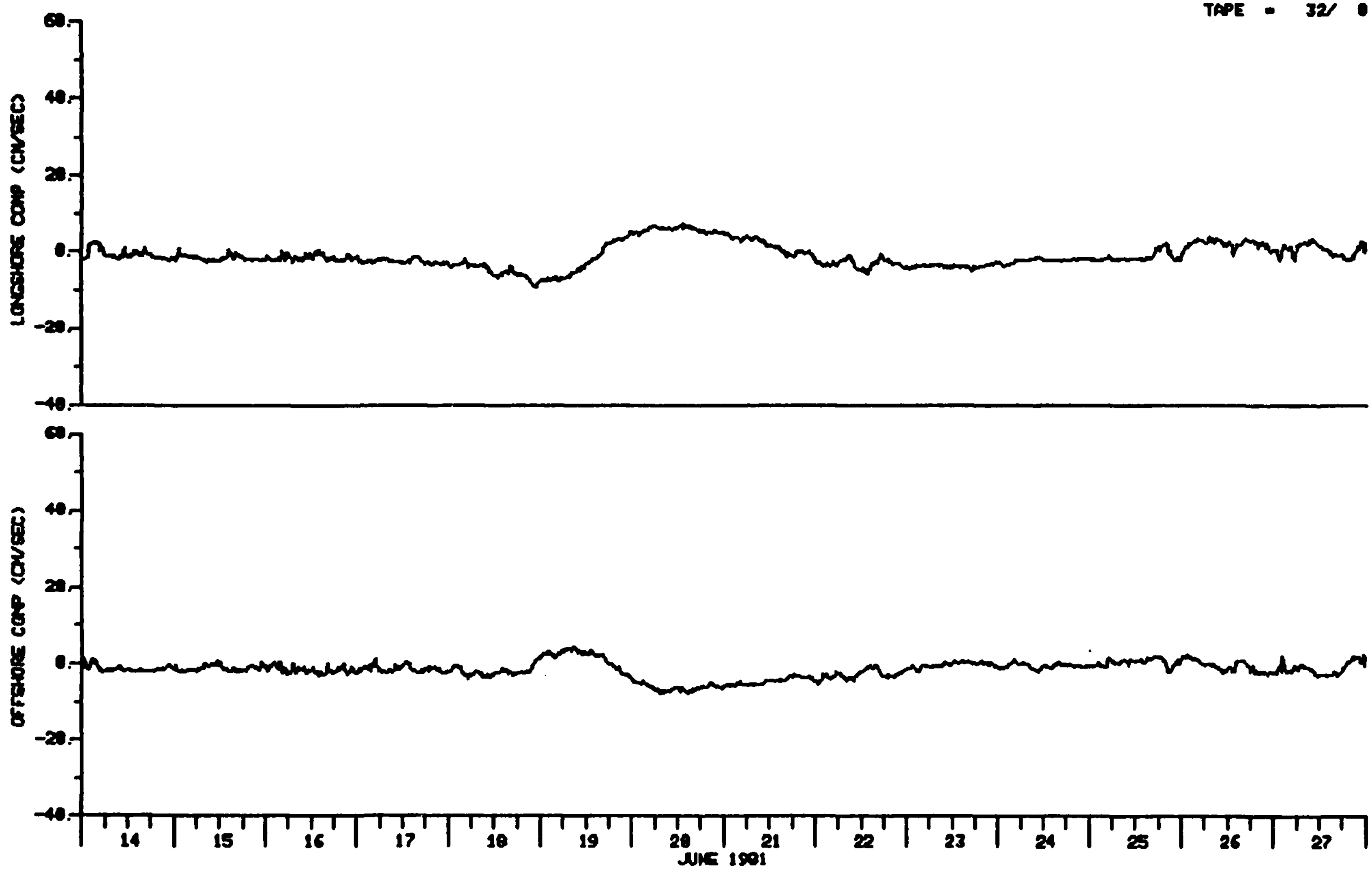


USCG BEAUFORT SEA STUDY



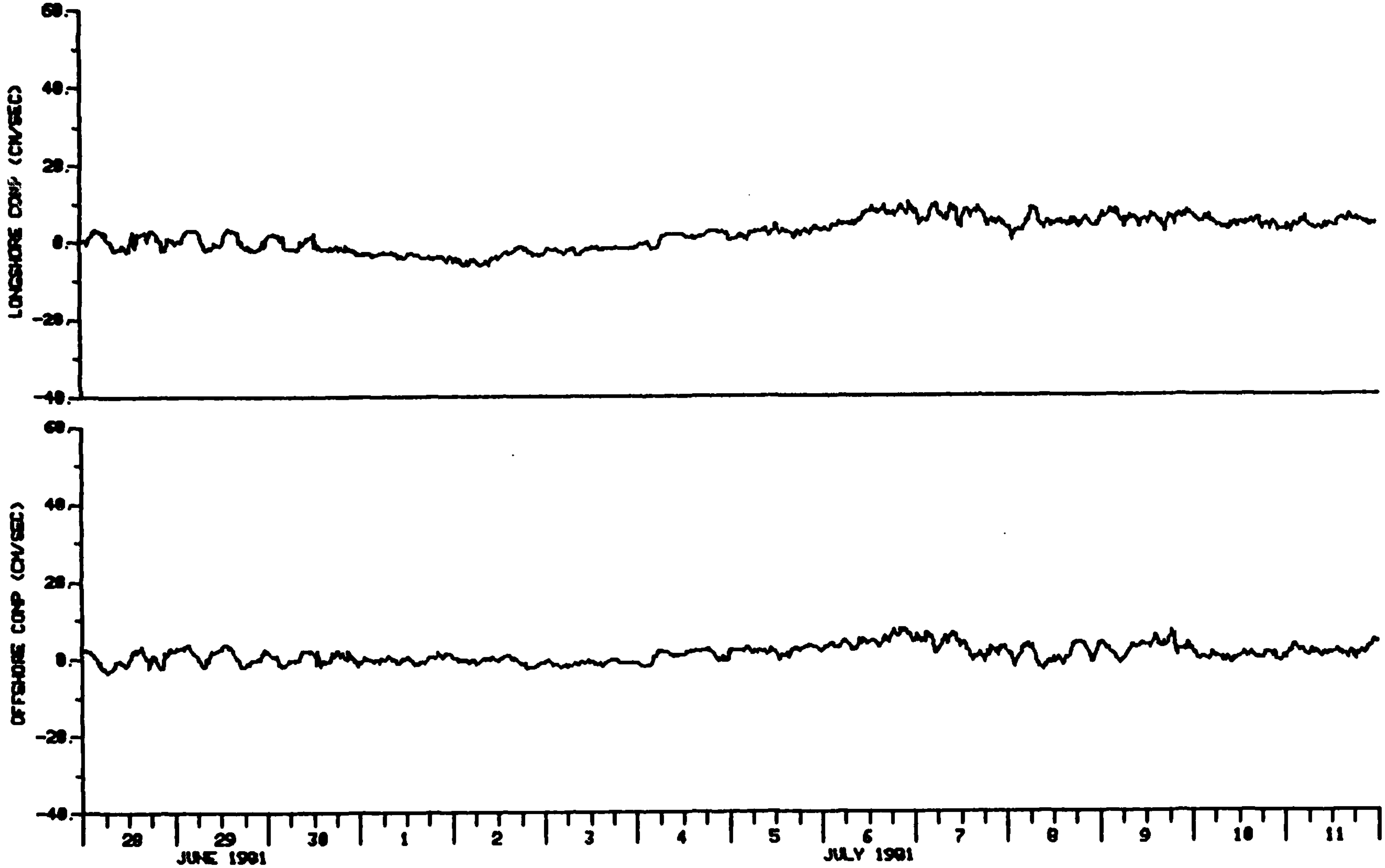
USCG BEAUFORT SEA STUDY

PAGE = 6
STNID = CO-3
DEPTH = 260
TAPE = 32/ 0



USCG BEAUFORT SEA STUDY

PAGE = 7
STNID = CO-3
DEPTH = 260
TAPE = 32/ 8



USCG BEAUFORT SEA STUDY

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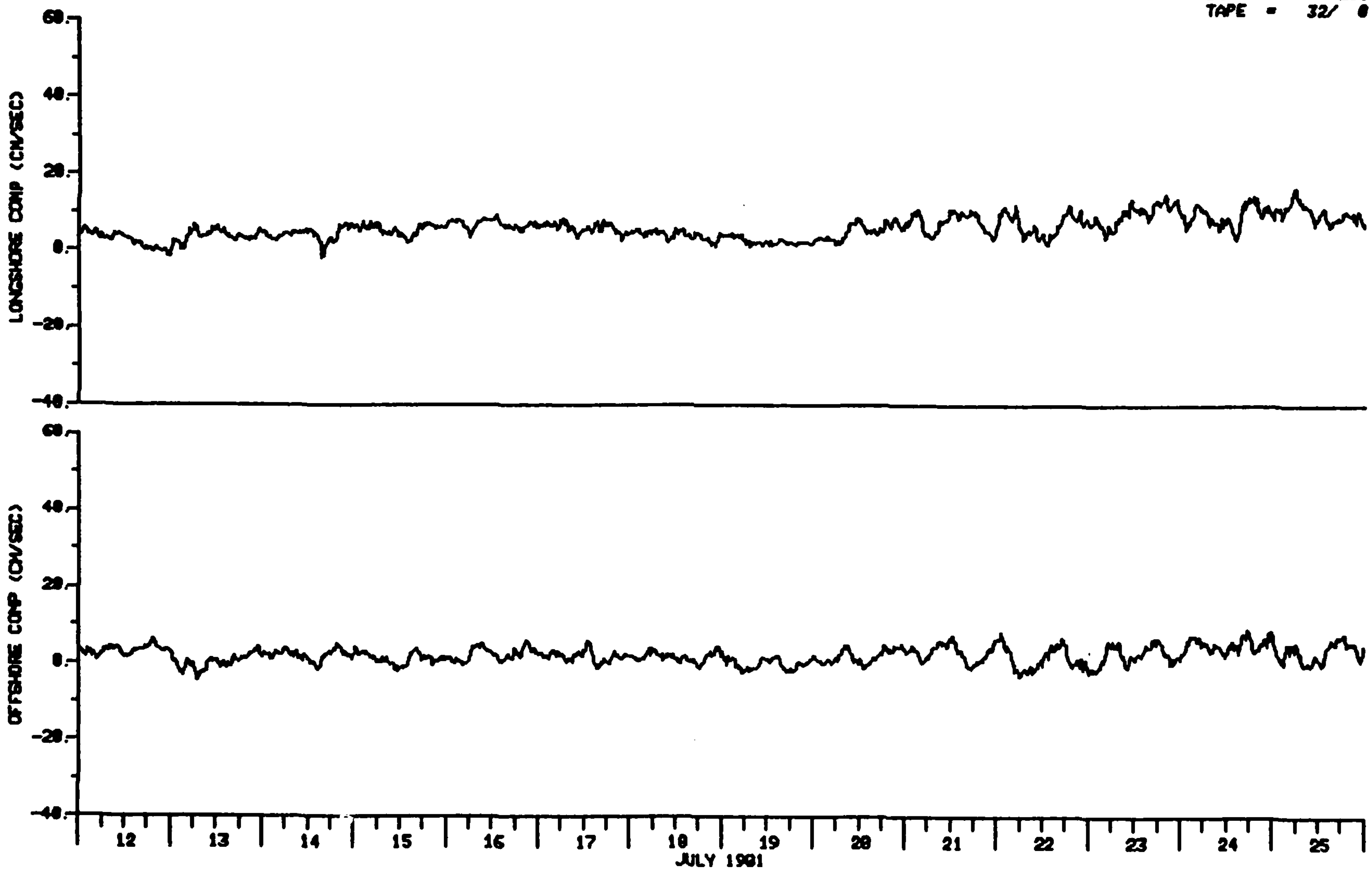

USCG BEAUFORT SEA STUDY

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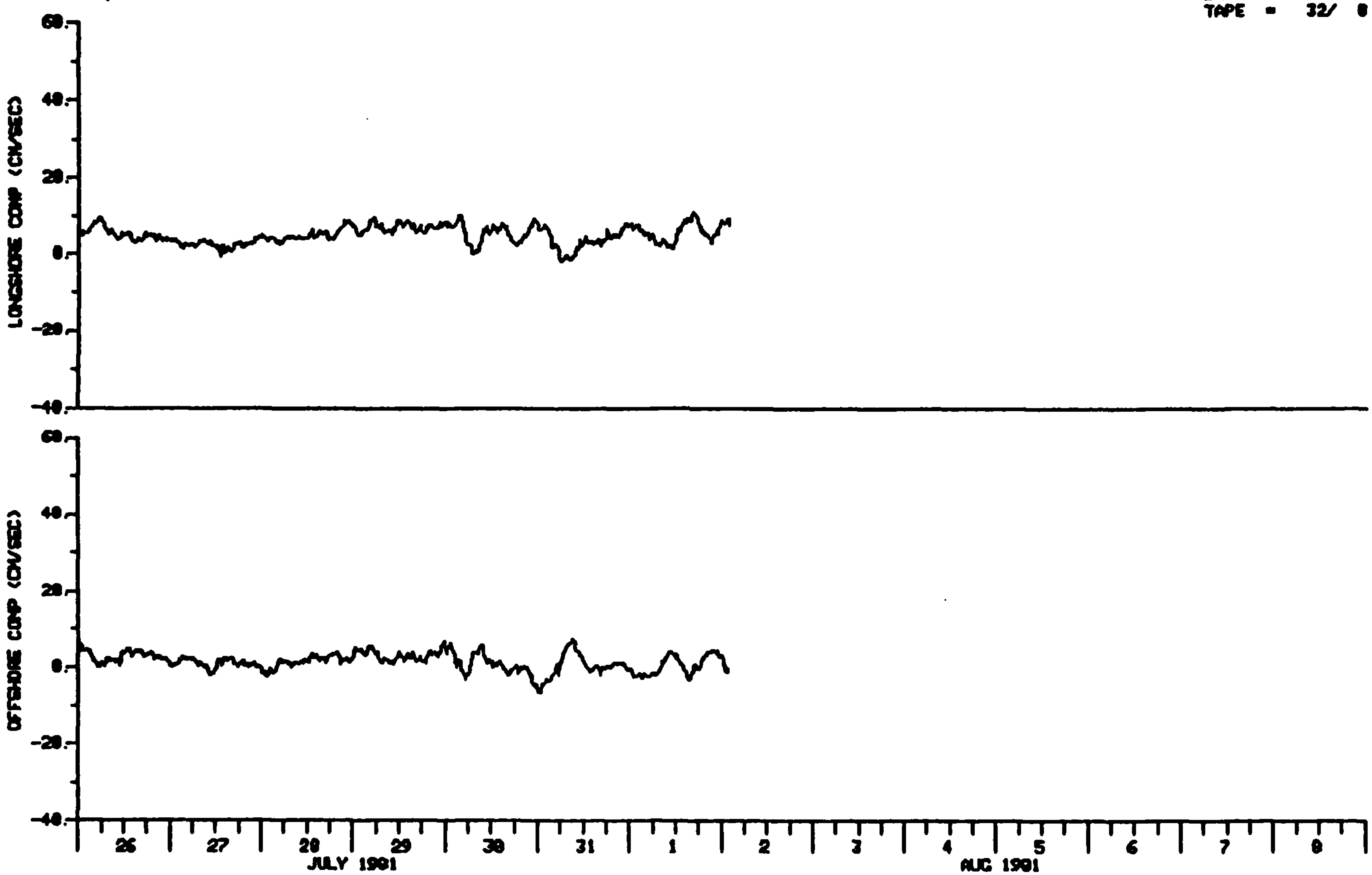

USCG BEAUFORT SEA STUDY

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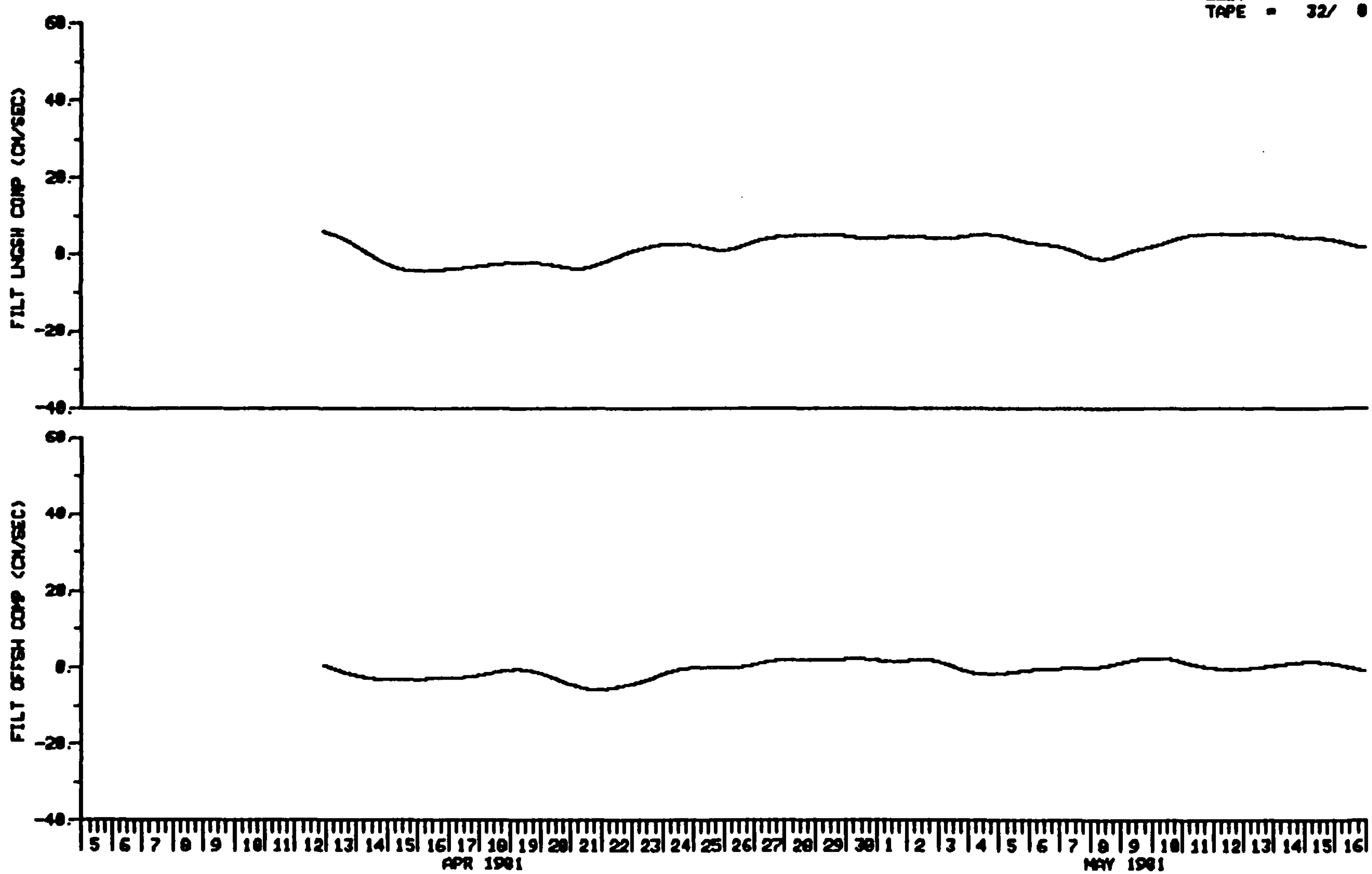
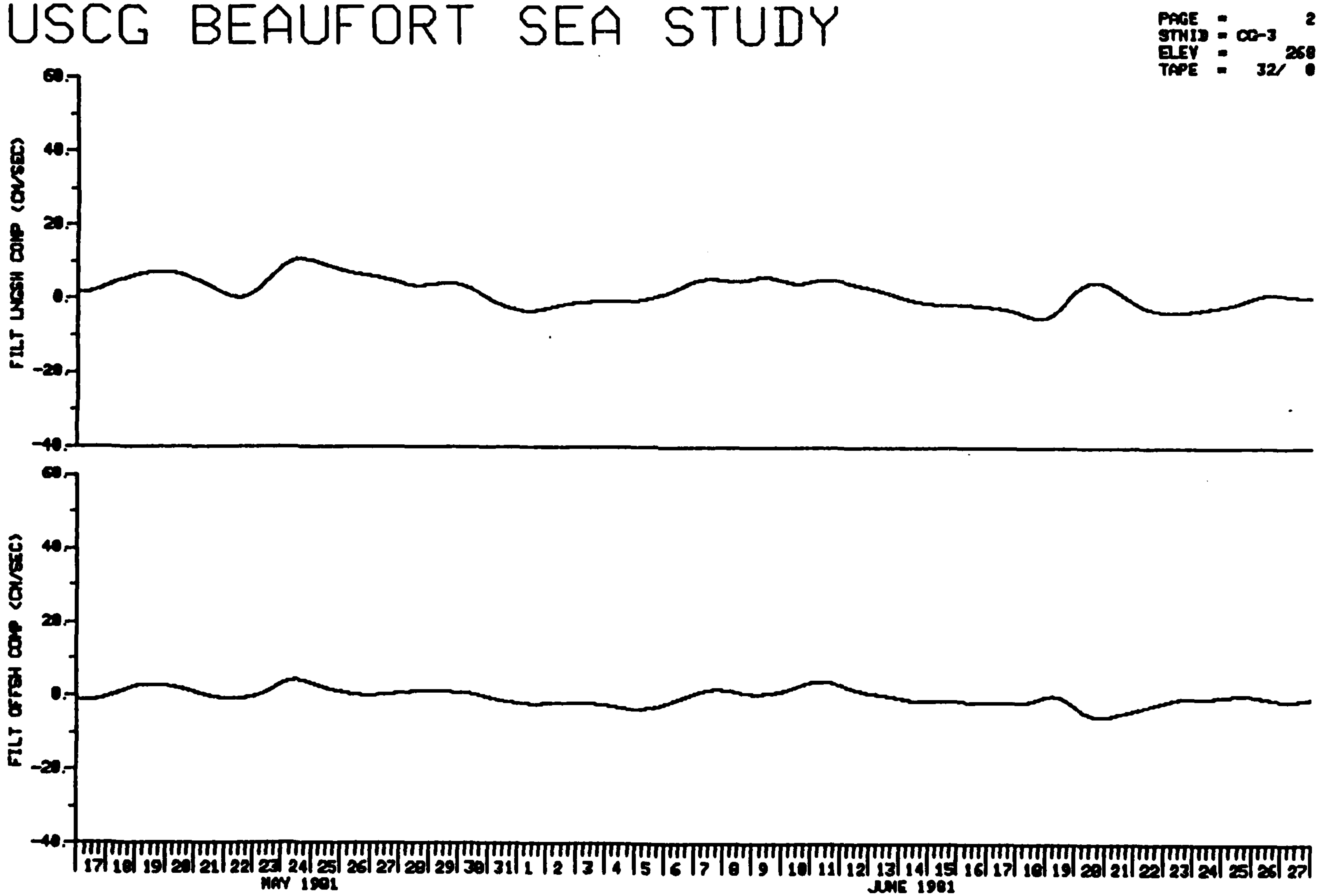


USCG BEAUFORT SEA STUDY



USCG BEAUFORT SEA STUDY

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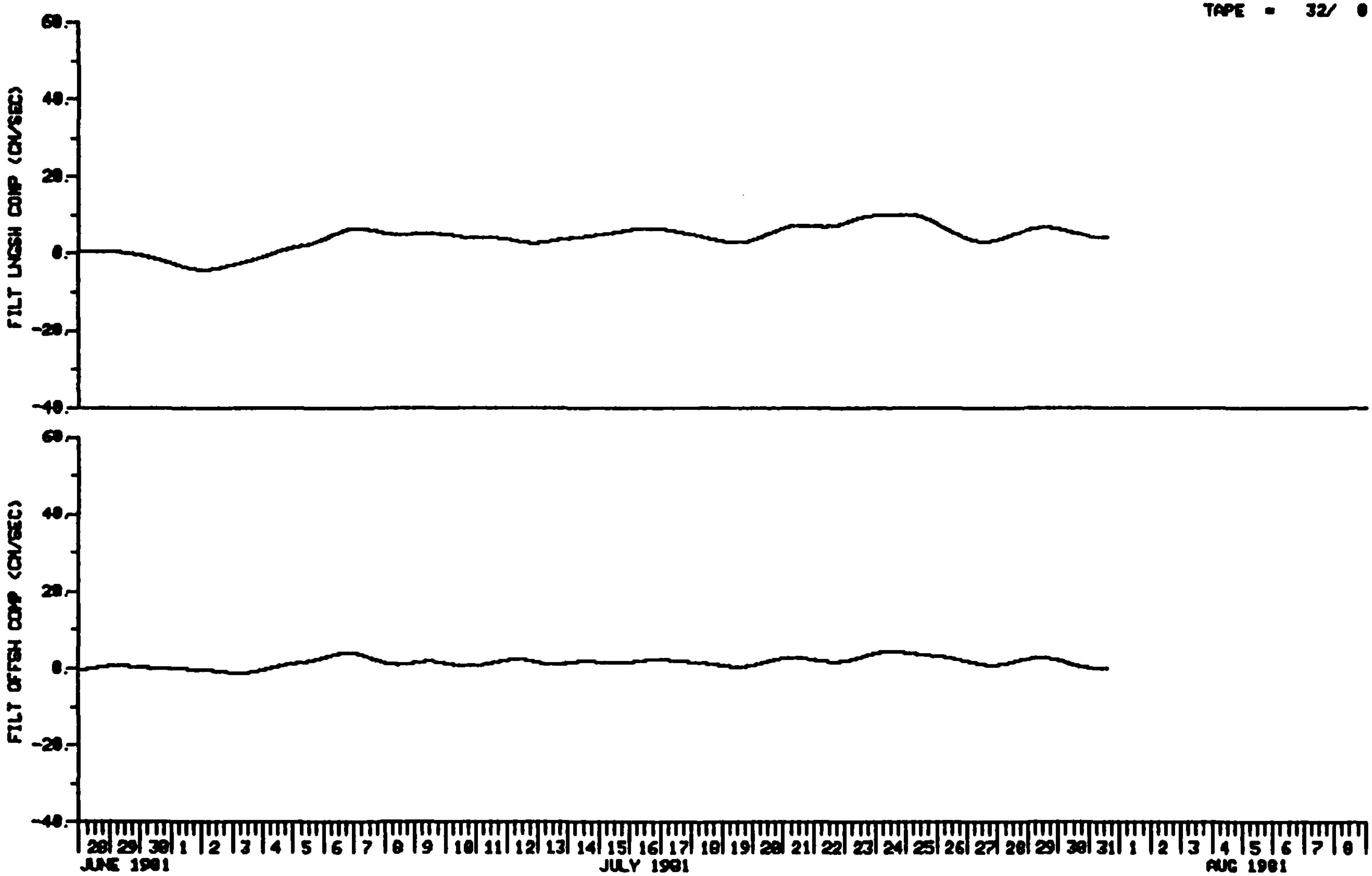


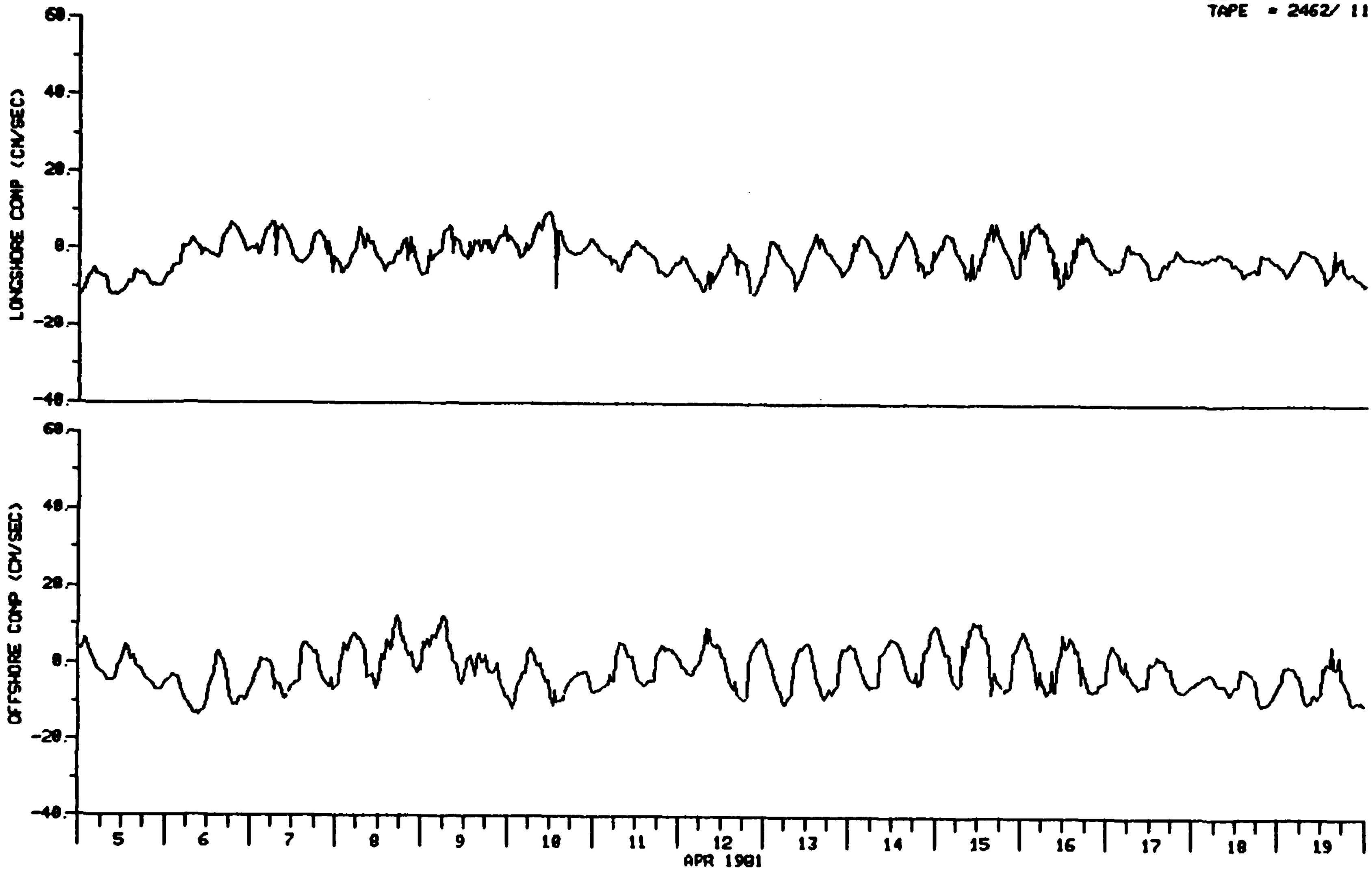
CM11

41 m depth
71° 11.3' N   132° 09.0' W
5 April 1981 to 9 August 1981
Longshore direction is 65° T
Offshore direction is 335° T

Filter is 25 hour low pass
A_{24}^{2} A_{25} (Godin, 1972)

USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CM-1
DEPTH = 35
TAPE = 2462/ 11



USCG BEAUFORT SEA STUDY

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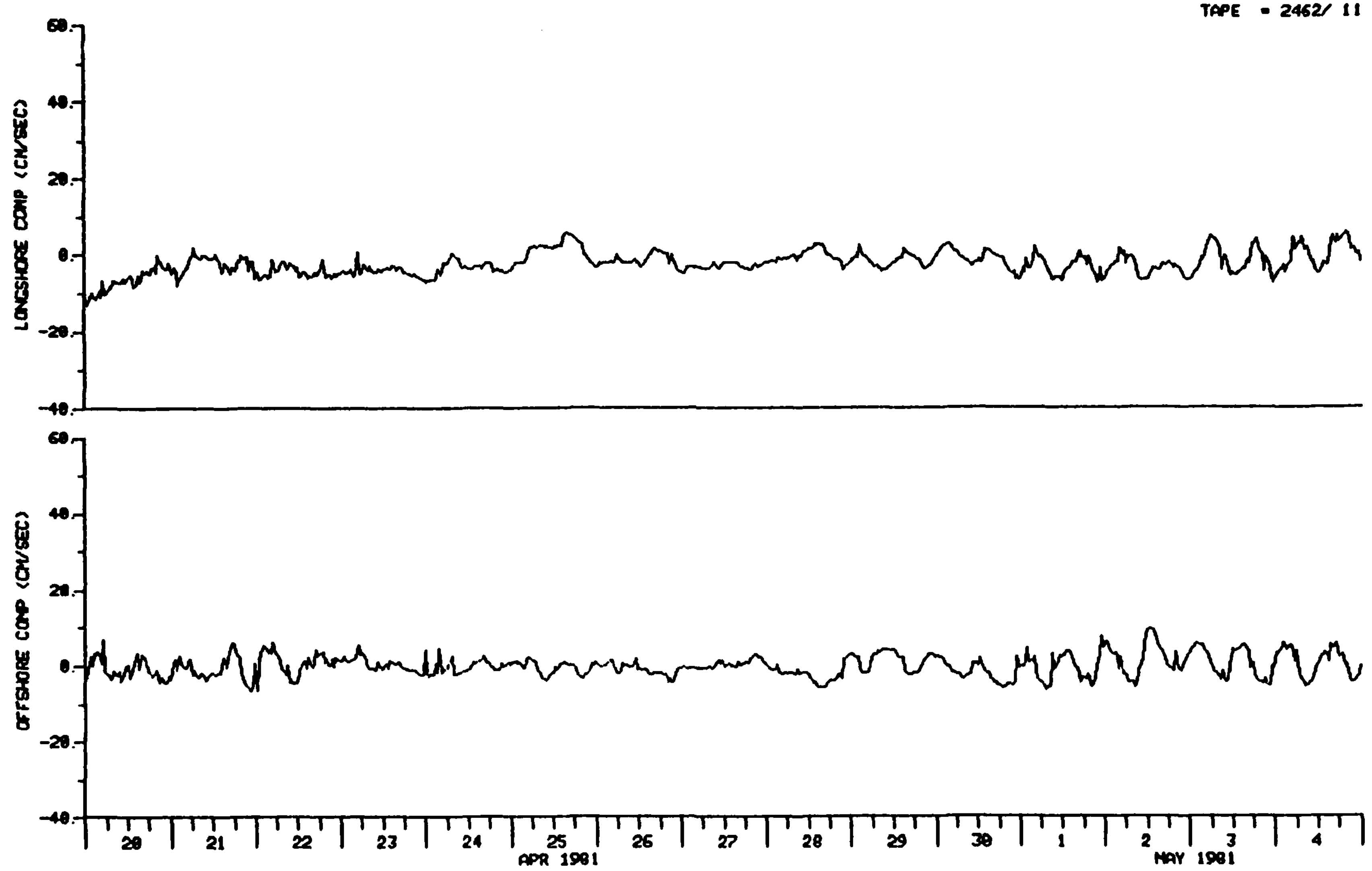

USCG BEAUFORT SEA STUDY

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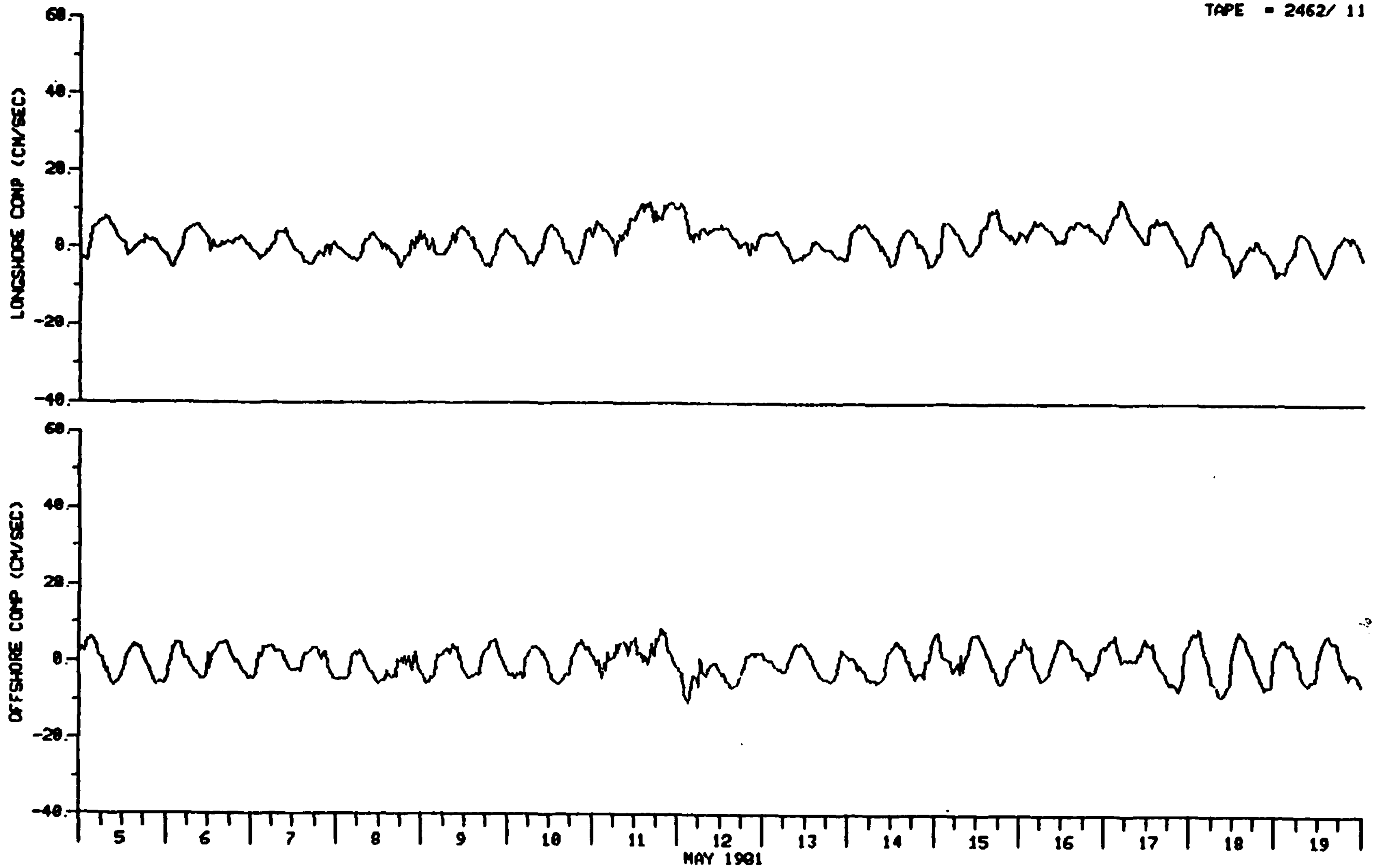

USCG BEAUFORT SEA STUDY

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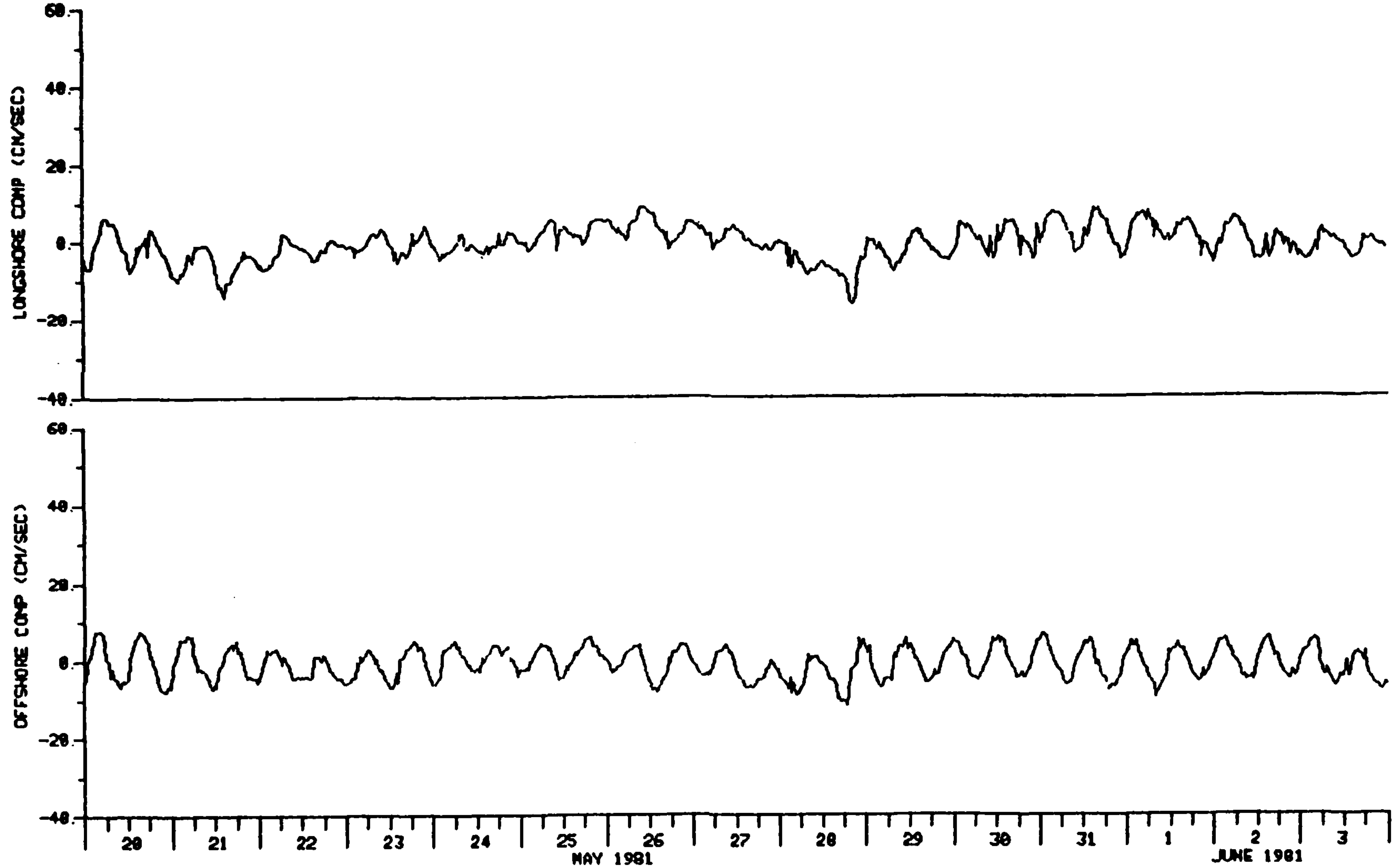

USCG BEAUFORT SEA STUDY

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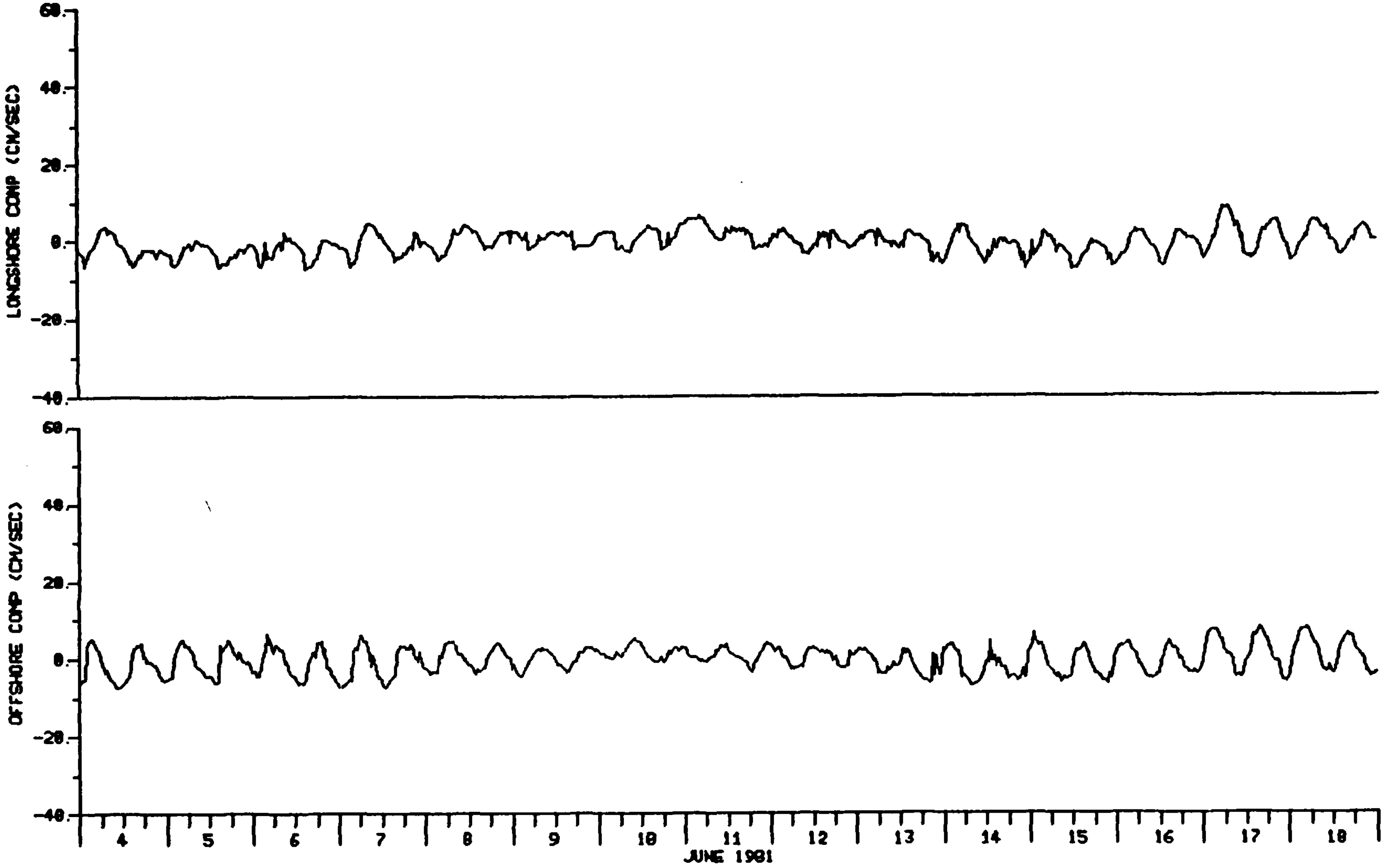

USCG BEAUFORT SEA STUDY

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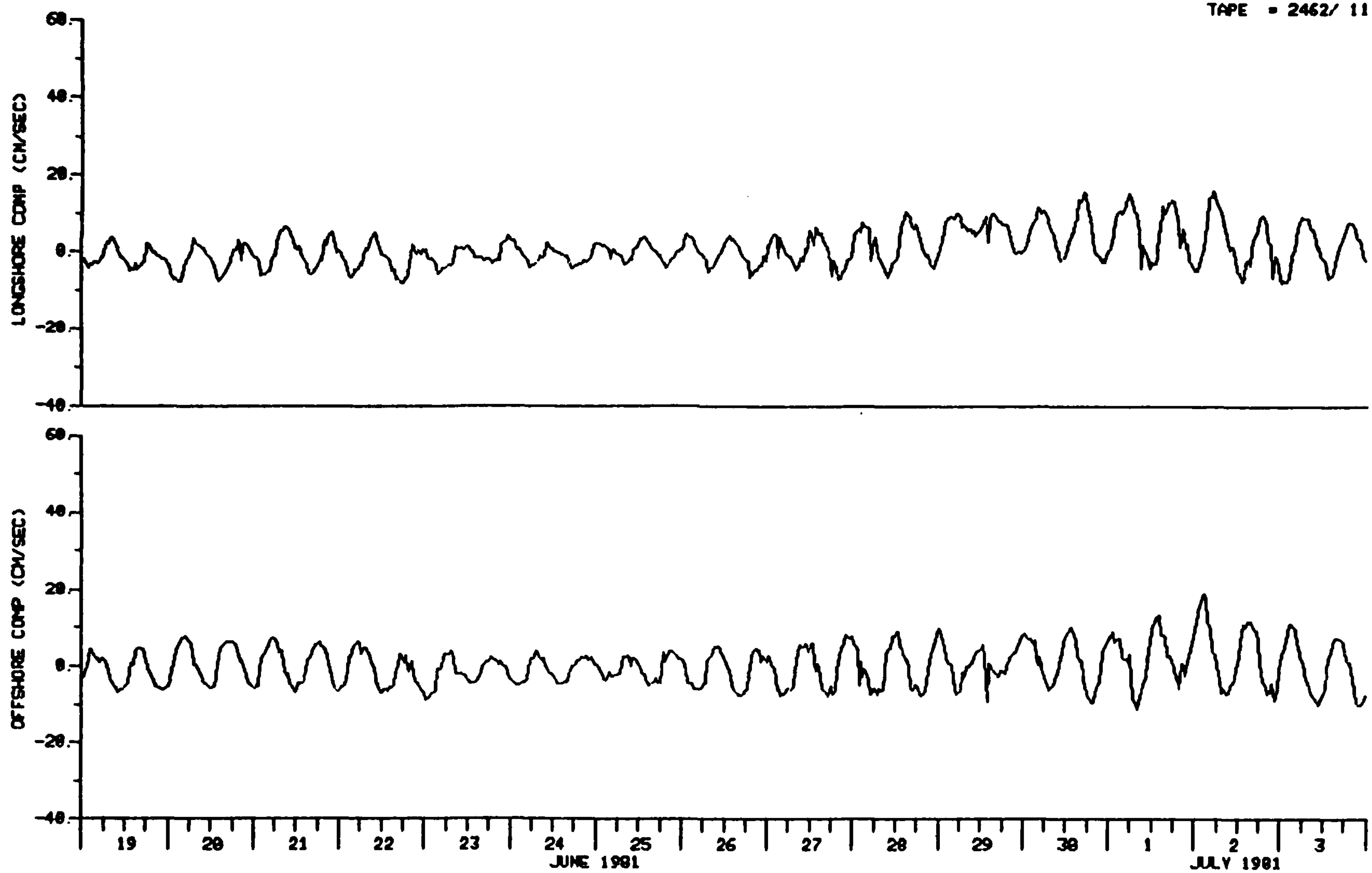

USCG BEAUFORT SEA STUDY

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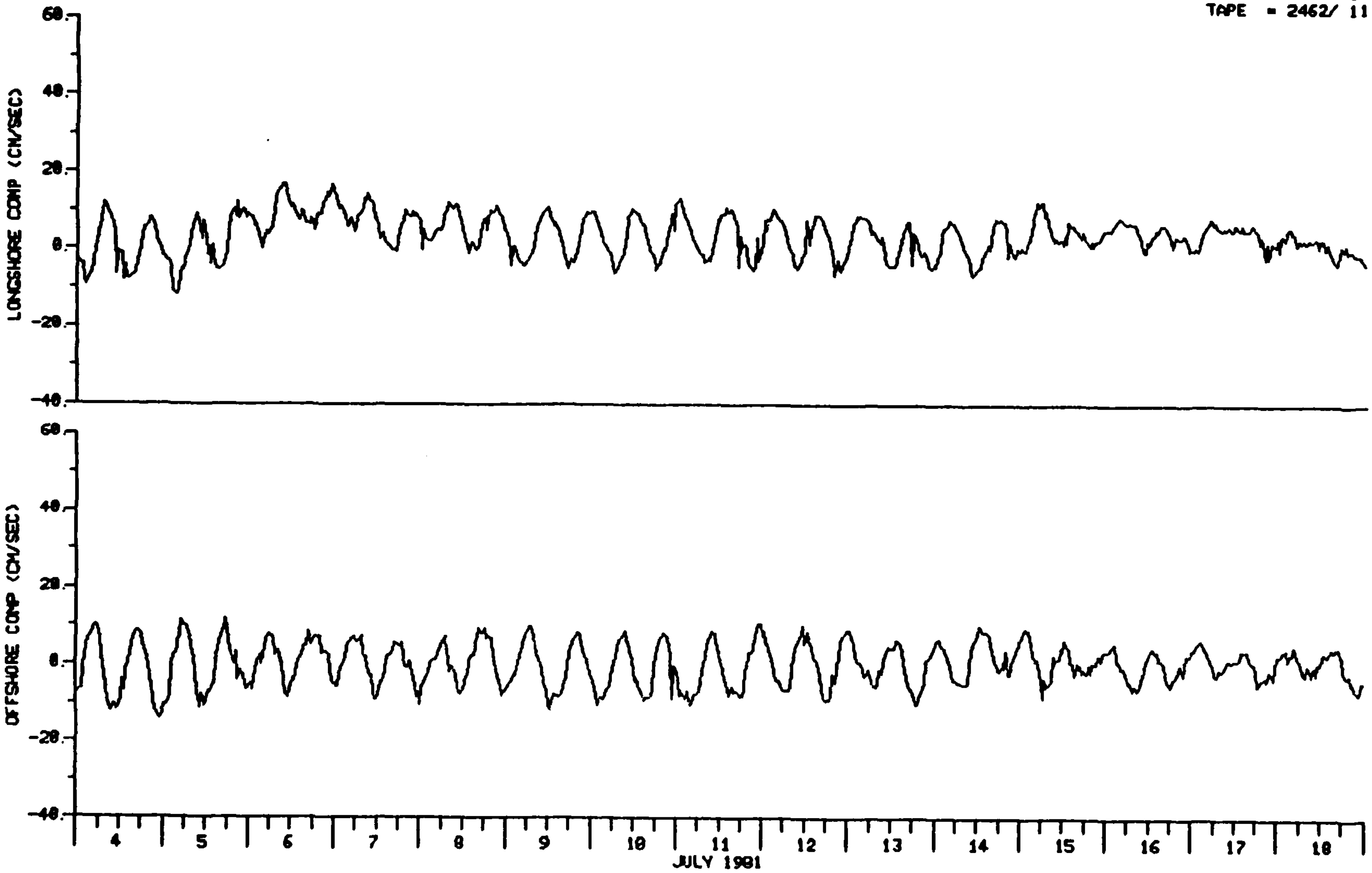

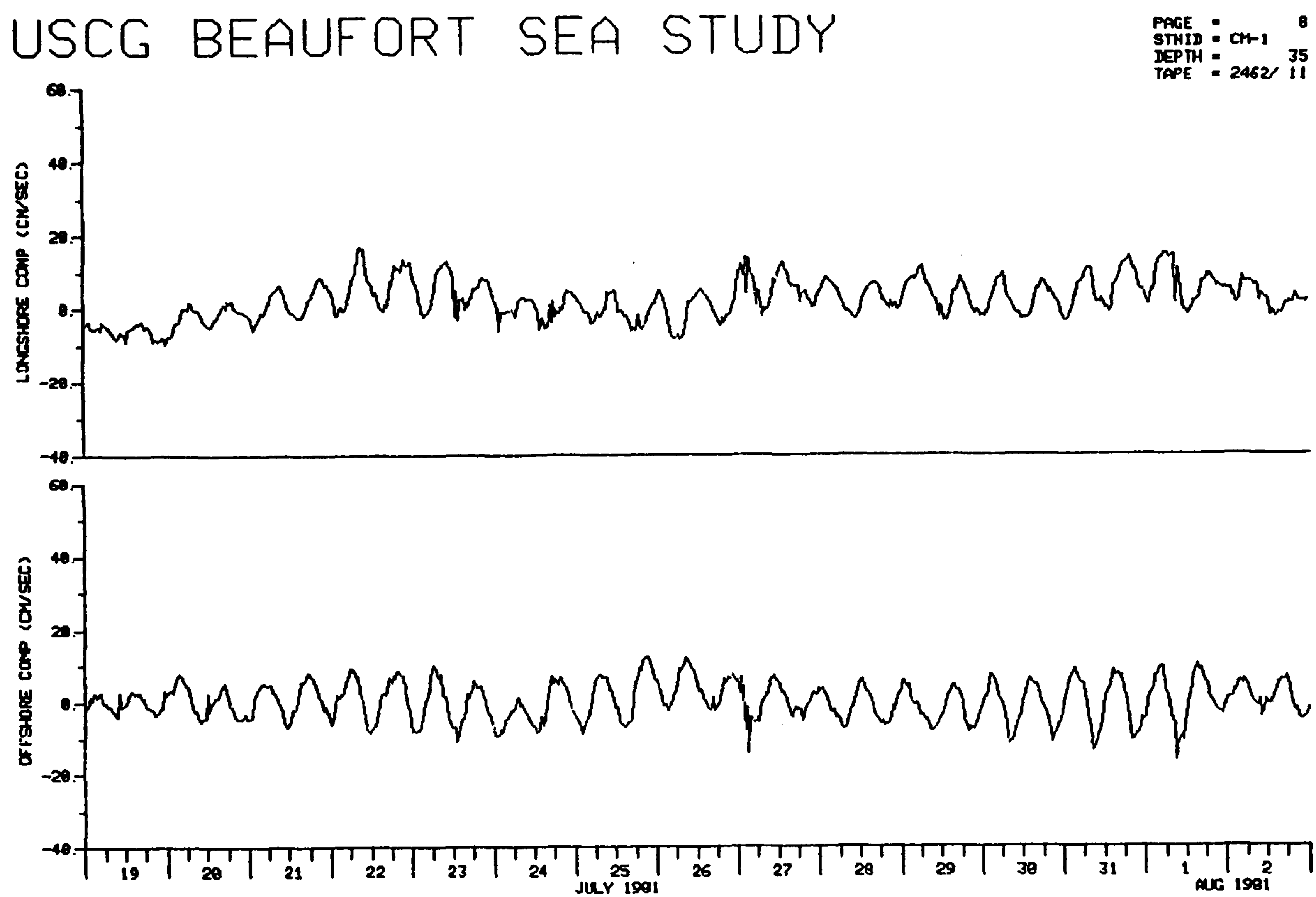
USCG BEAUFORT SEA STUDY
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OFFSHORE COMP (CM/SEC)
60.
40.
20.
0.
-20.
-40.
19
20
21
22
23
24
25
26
27
28
29
30
31
1
2
JULY 1981
AUG 1981

USCG BEAUFORT SEA STUDY

PAGE = 9
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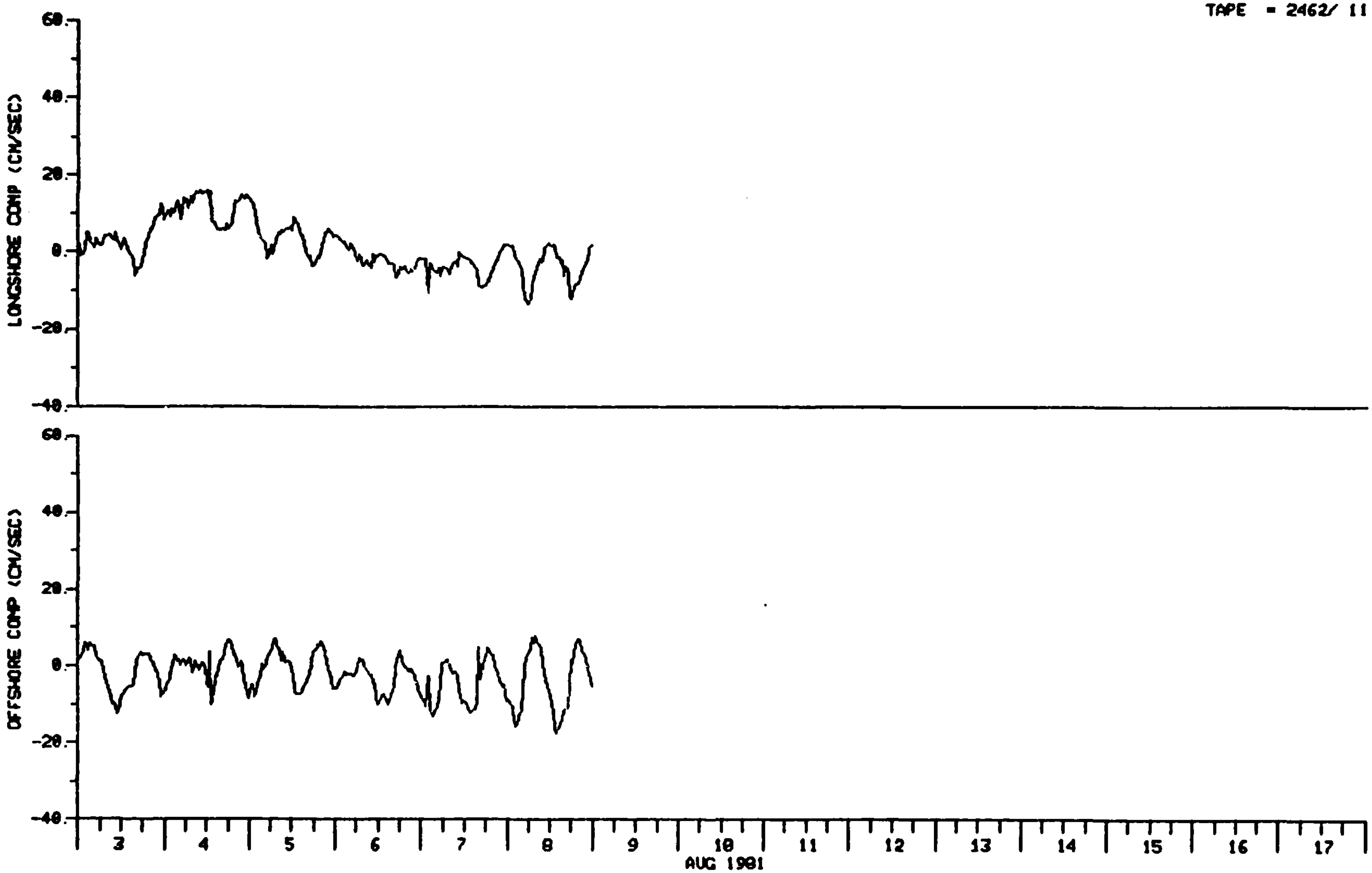

USCG BEAUFORT SEA STUDY

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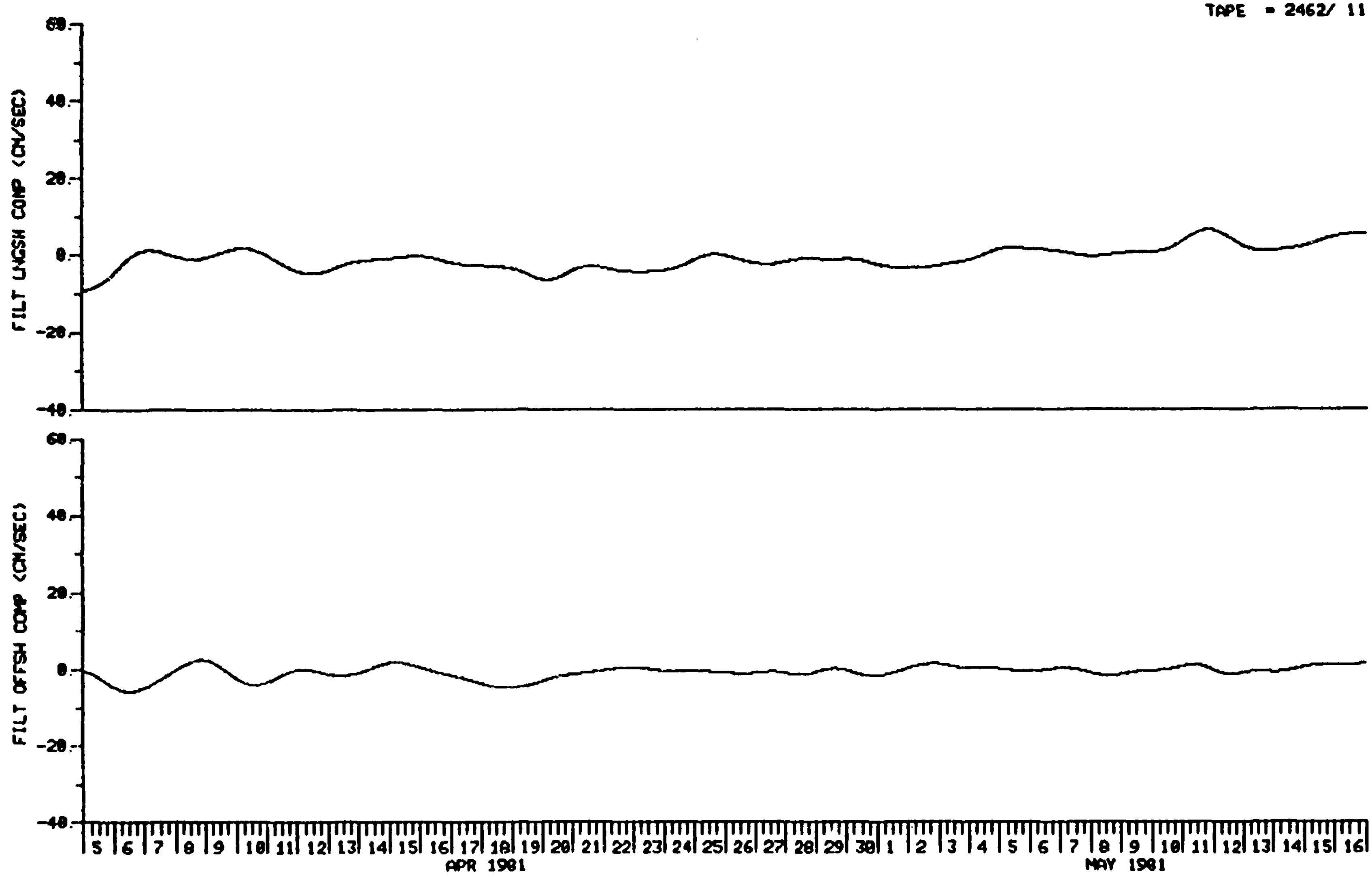

USCG BEAUFORT SEA STUDY

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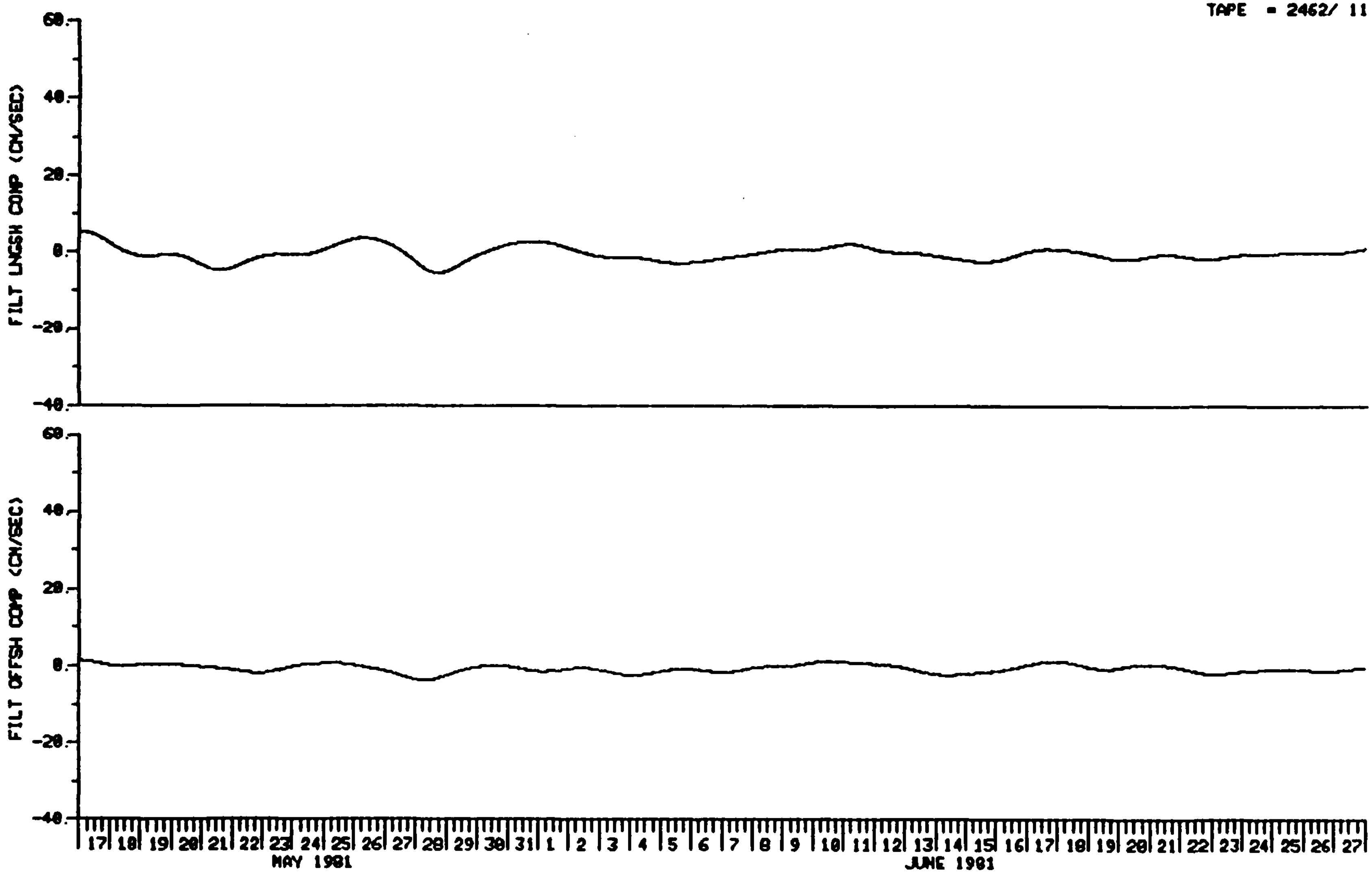

USCG BEAUFORT SEA STUDY

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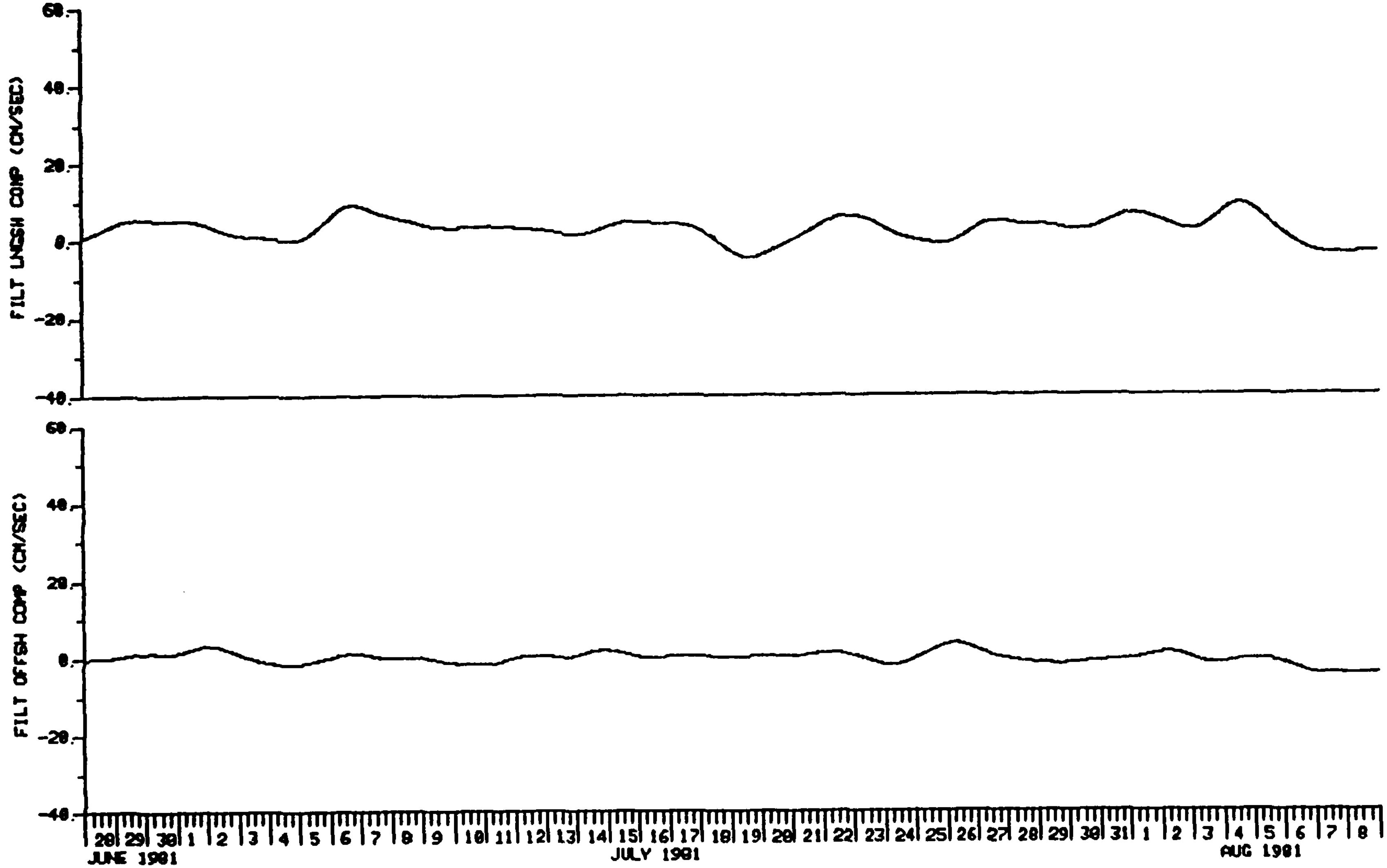

CM12

94 m depth
71° 11.3' N   132° 09.0' W
5 April 1981 to 9 August 1981
Longshore direction is 65° T
Offshore direction is 335° T

Filter is 25 hour low pass
$A_{24}^{2} A_{25}$ (Godin, 1972)

USCG BEAUFORT SEA STUDY

PAGE = 1
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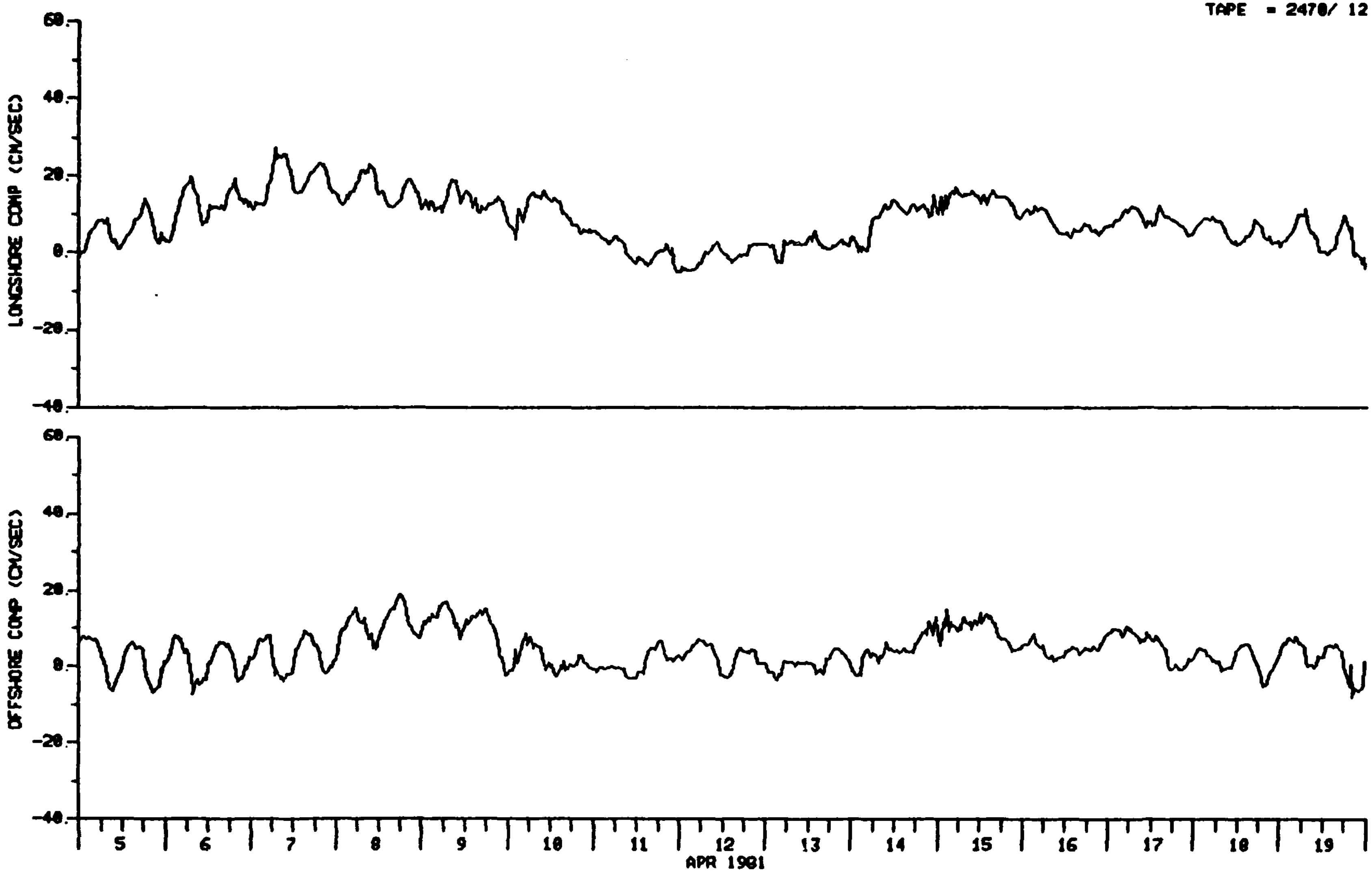

USCG BEAUFORT SEA STUDY

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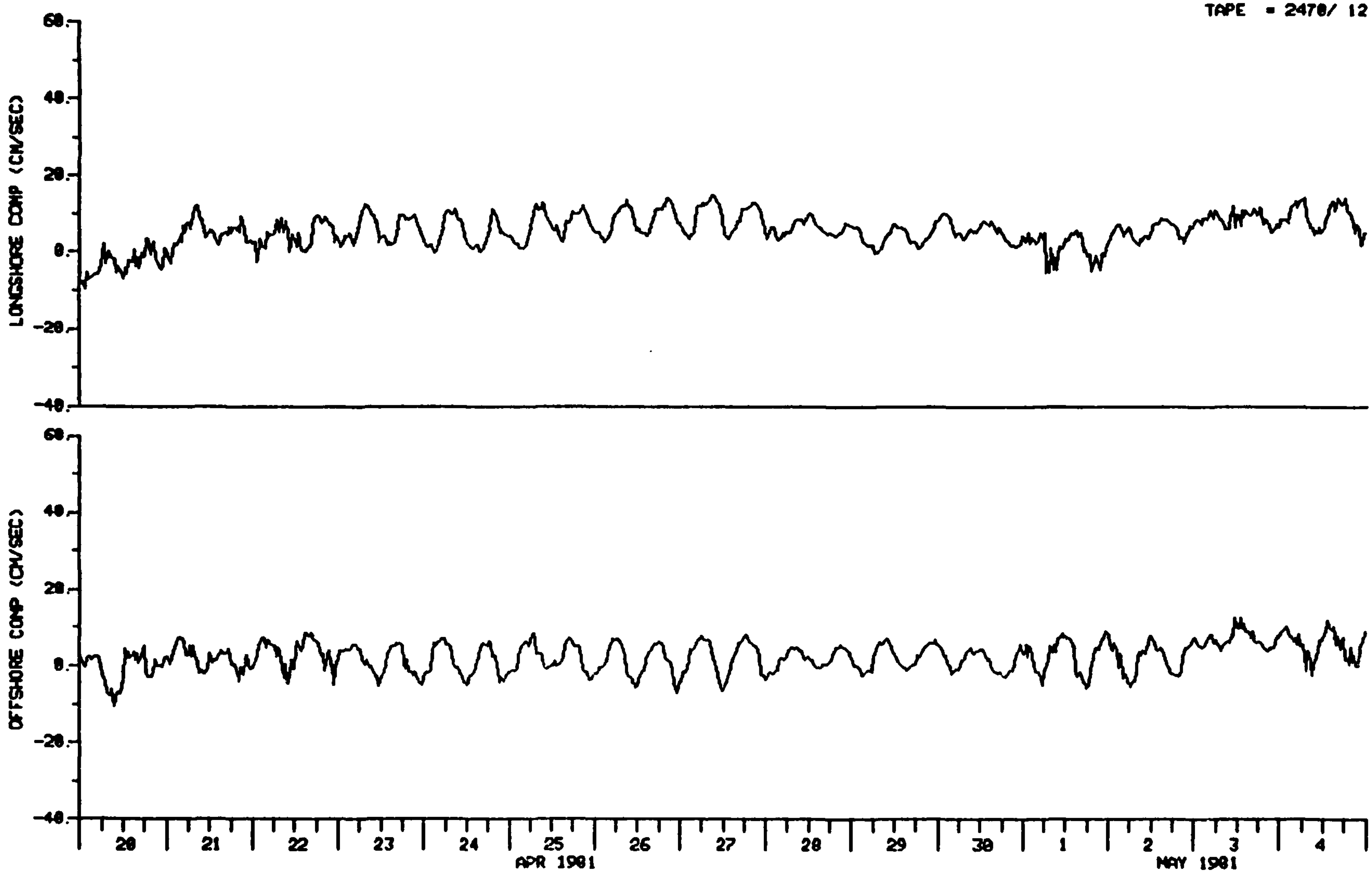
TAPE = 2470/ 12



USCG BEAUFORT SEA STUDY

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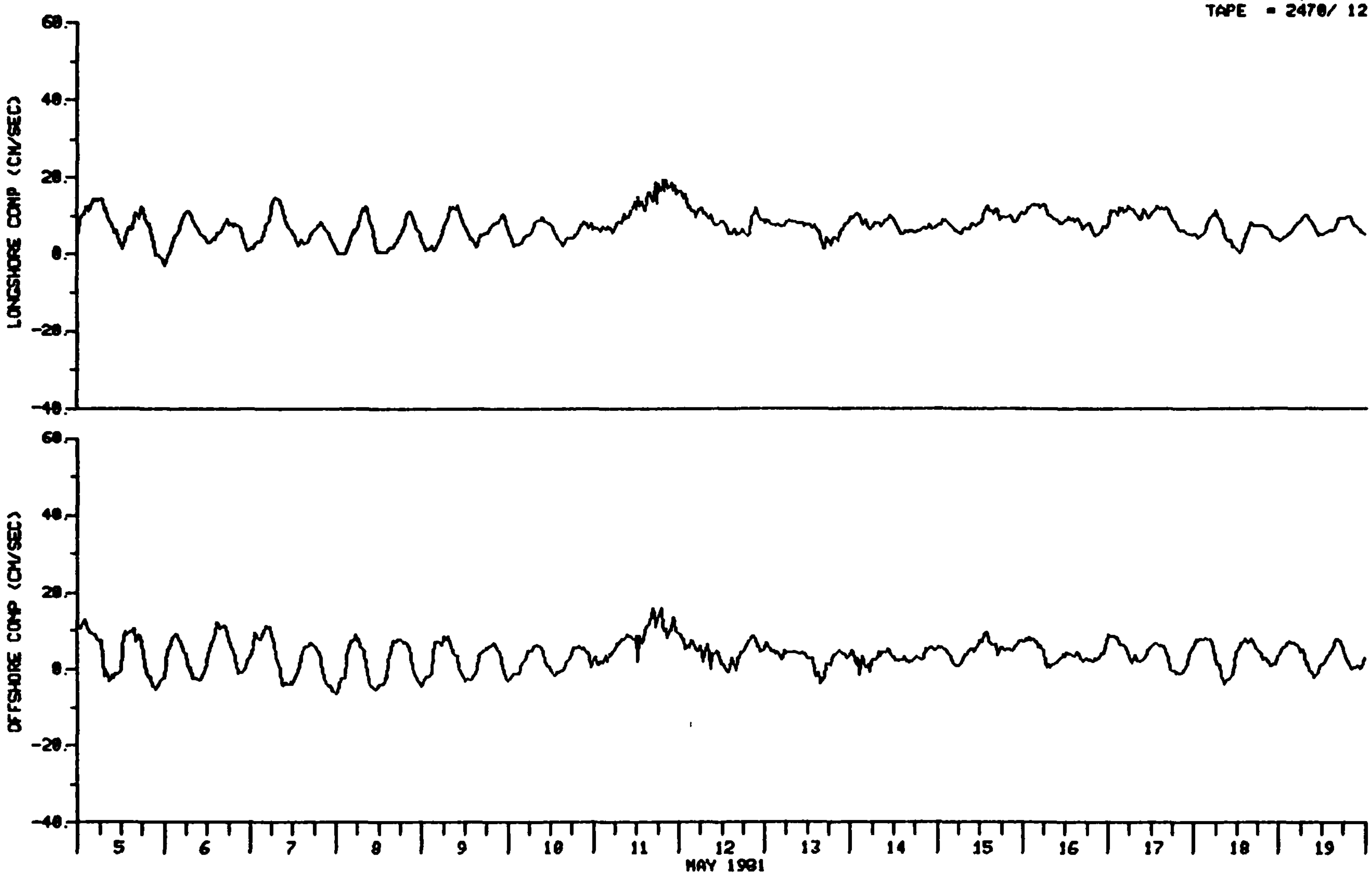
STNID = CM-1
DEPTH = 100
TAPE = 2470/ 12



USCG BEAUFORT SEA STUDY

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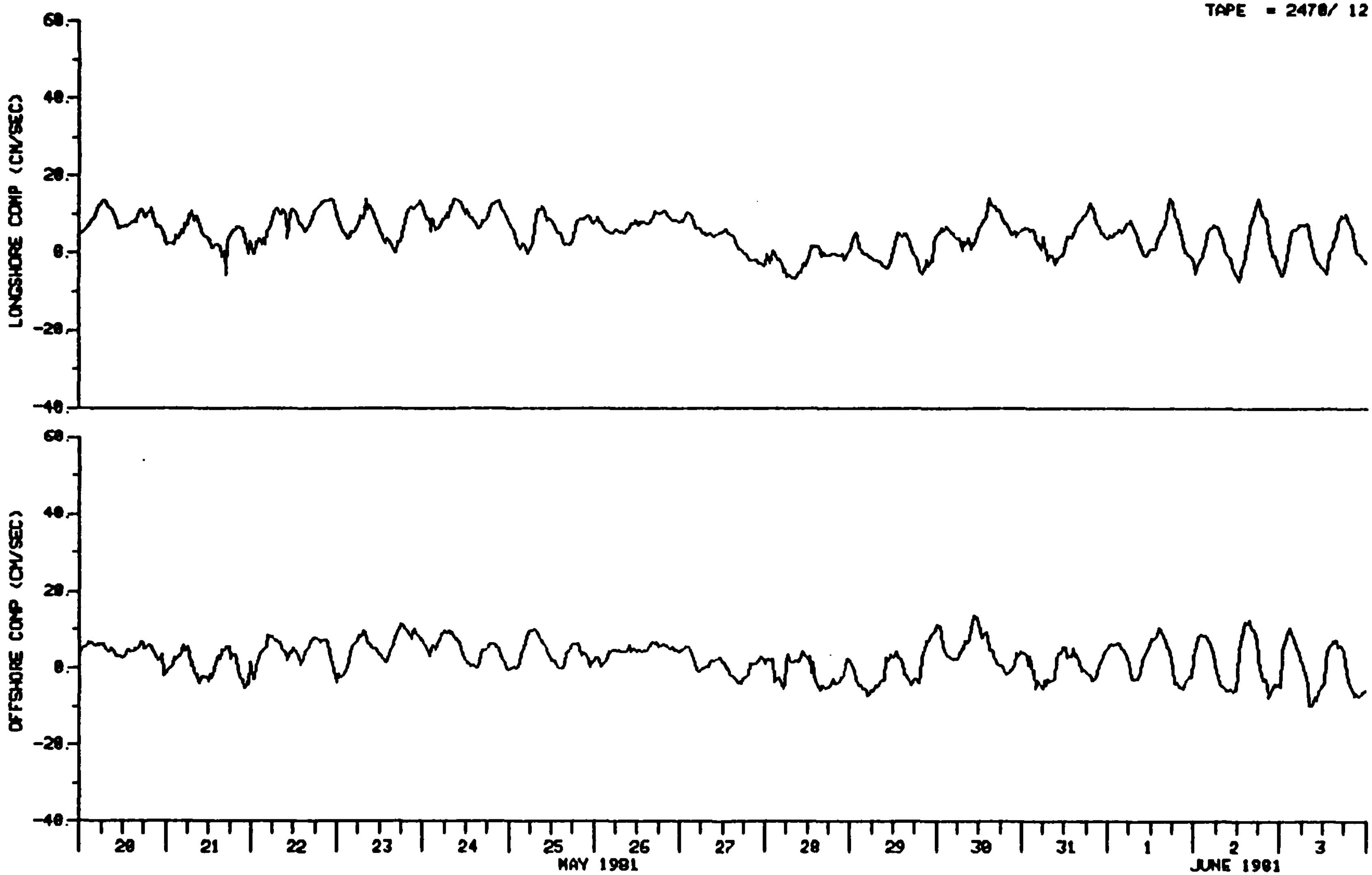

USCG BEAUFORT SEA STUDY

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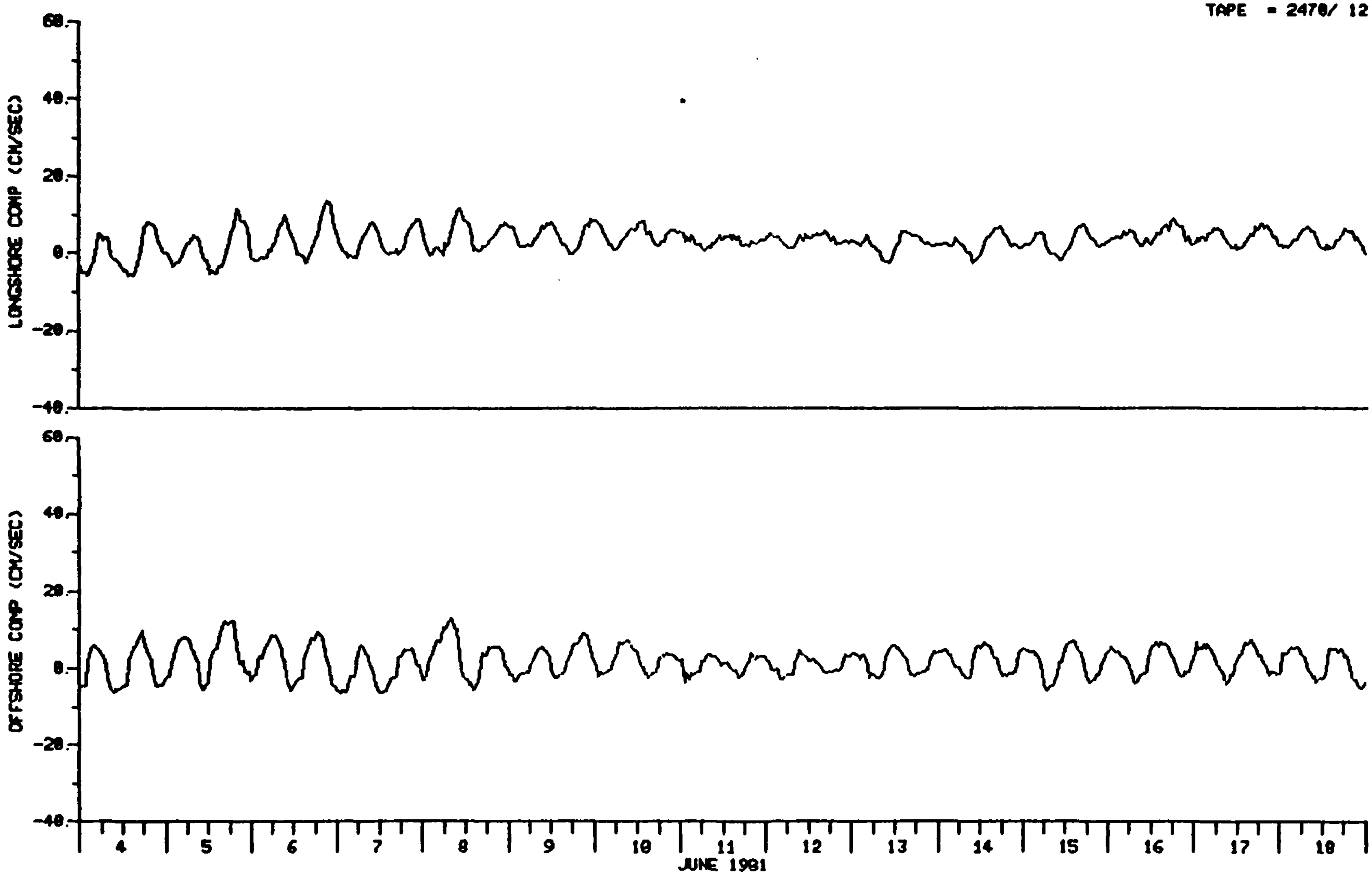

USCG BEAUFORT SEA STUDY

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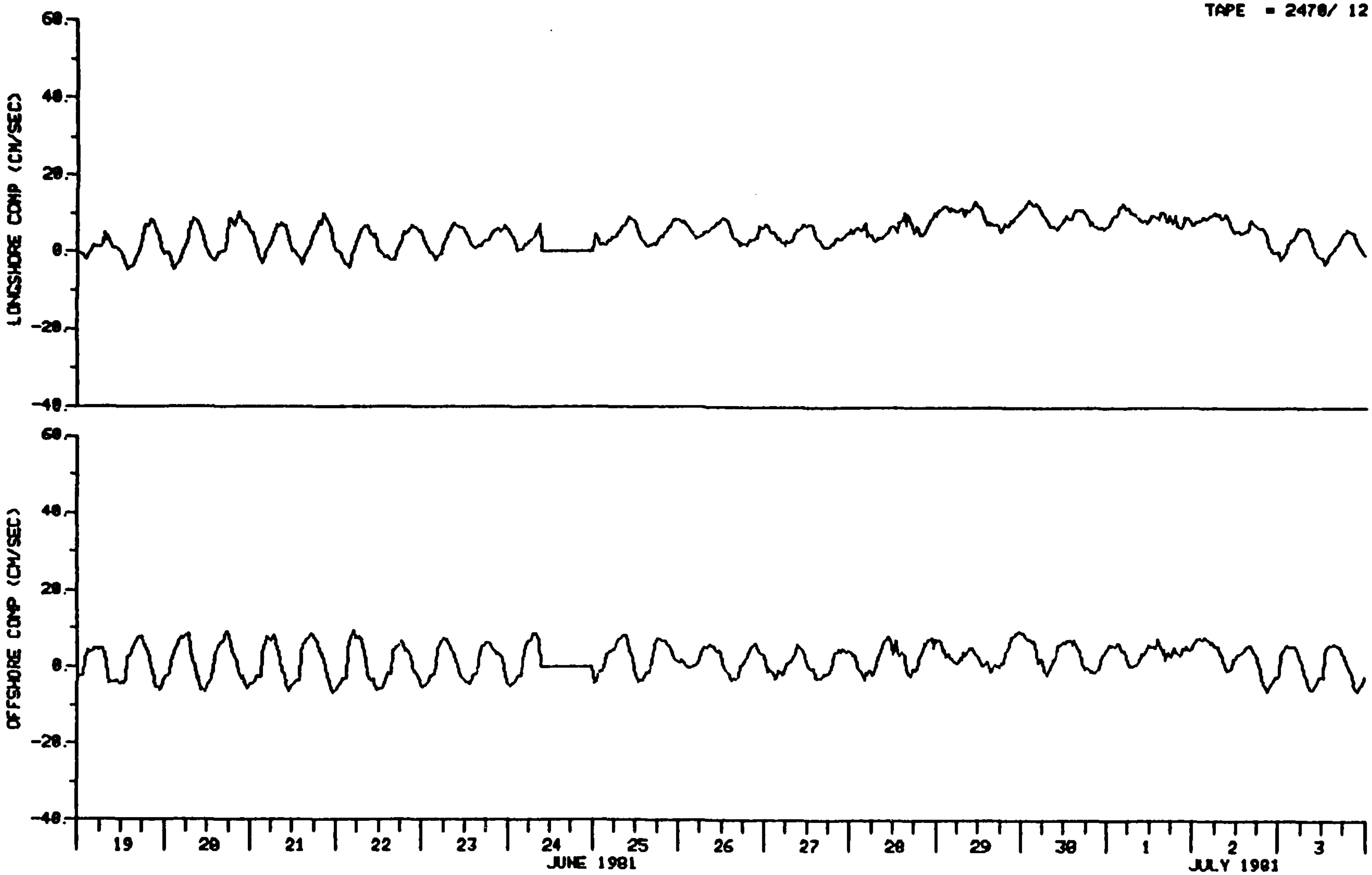

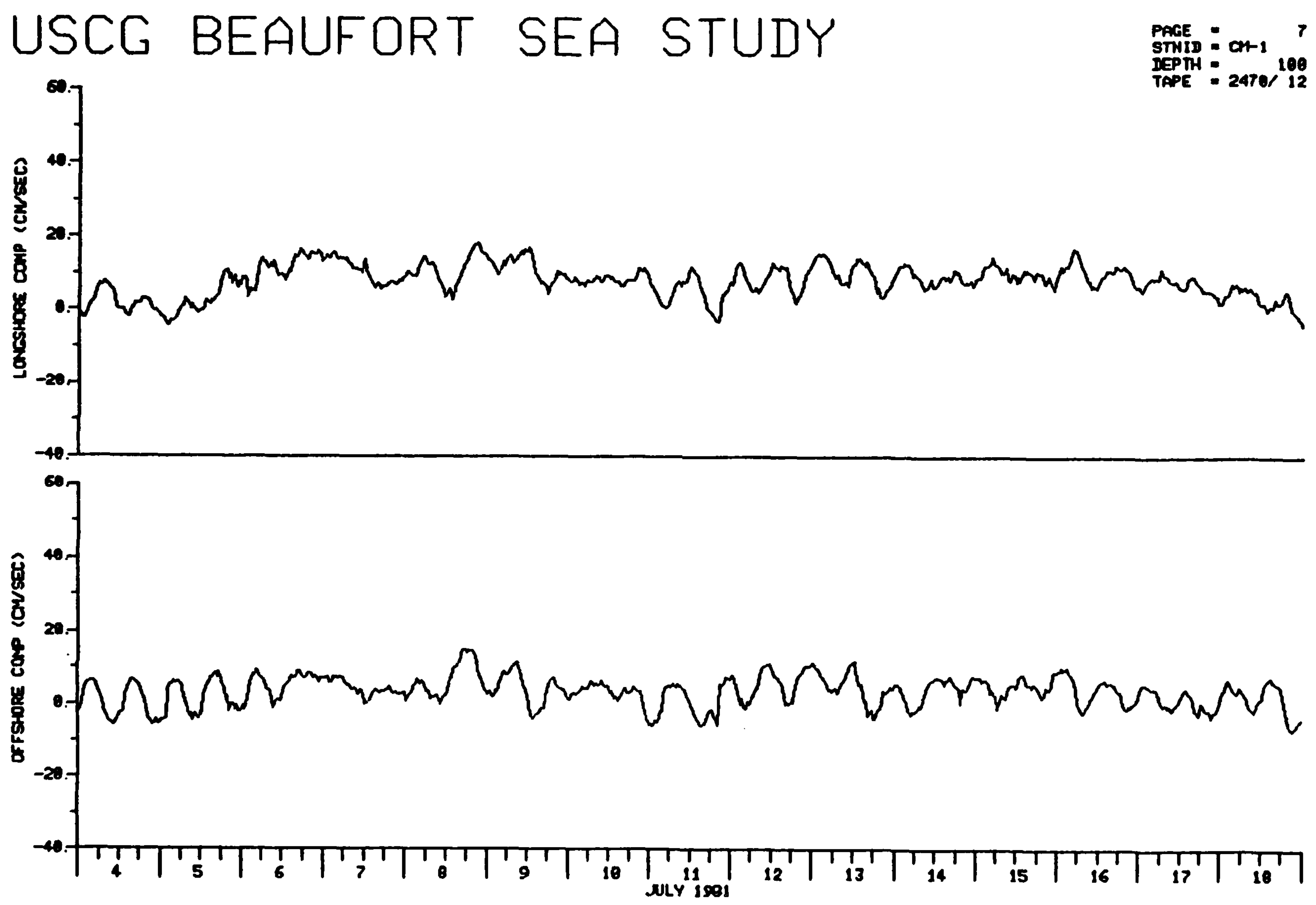
USCG BEAUFORT SEA STUDY
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STNID = CM-1
DEPTH = 100
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OFFSHORE COMP (CM/SEC)
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40.
20.
0.
-20.
-40.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
JULY 1981

USCG BEAUFORT SEA STUDY

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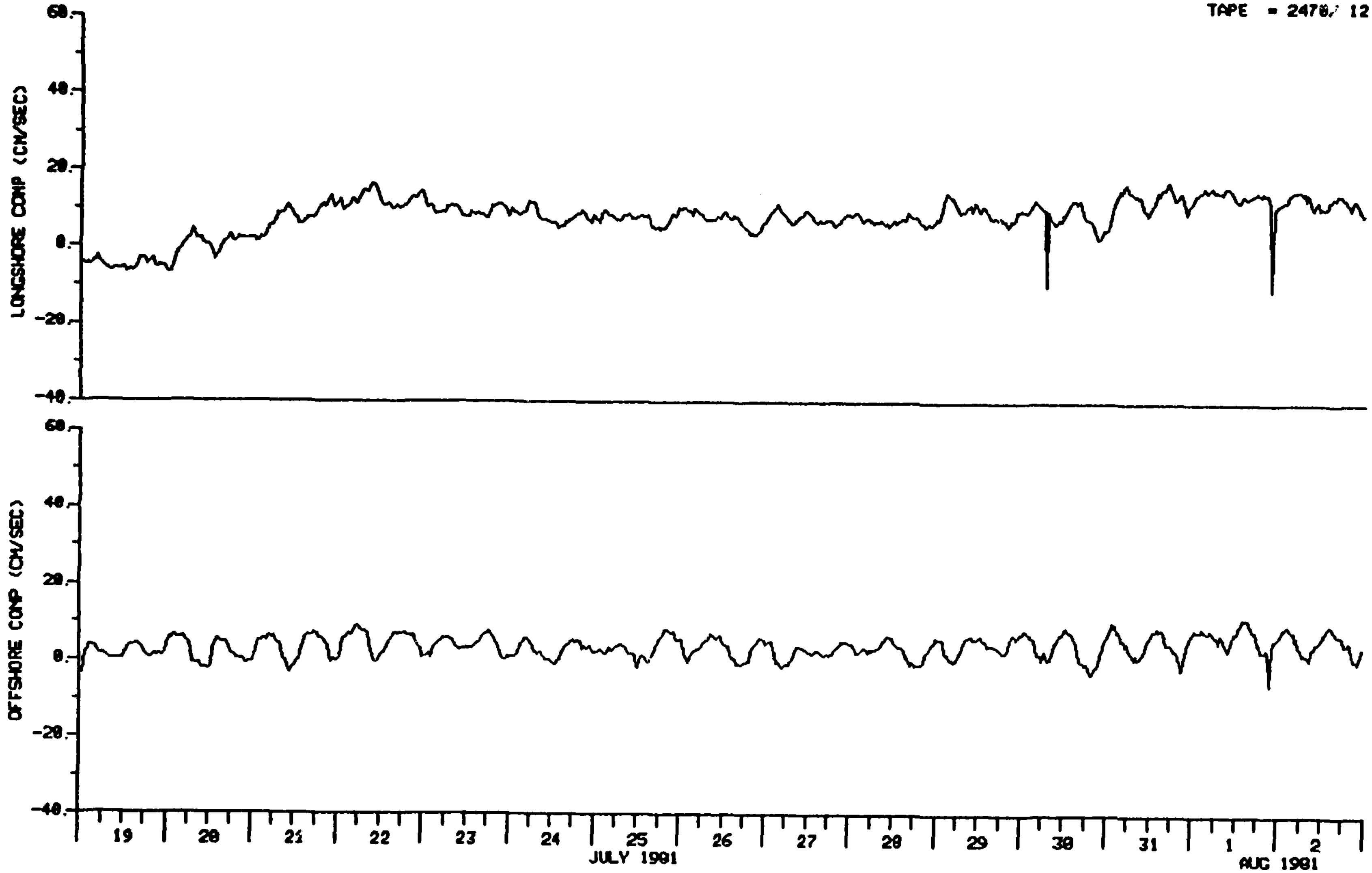
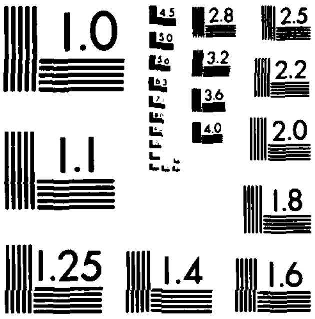
TAPE = 2470/ 12



AD-A145 197 ANALYSIS AND INTERPRETATION OF CURRENT MEASUREMENTS FROM THE BEAUFORT SEA(U) DOBROCKY SEATECH LTD SIDNEY (BRITISH COLUMBIA) P GREISMAN ET AL. APR 84 3/6

UNCLASSIFIED USCG-D-18-84 F/G 8/3 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

USCG BEAUFORT SEA STUDY

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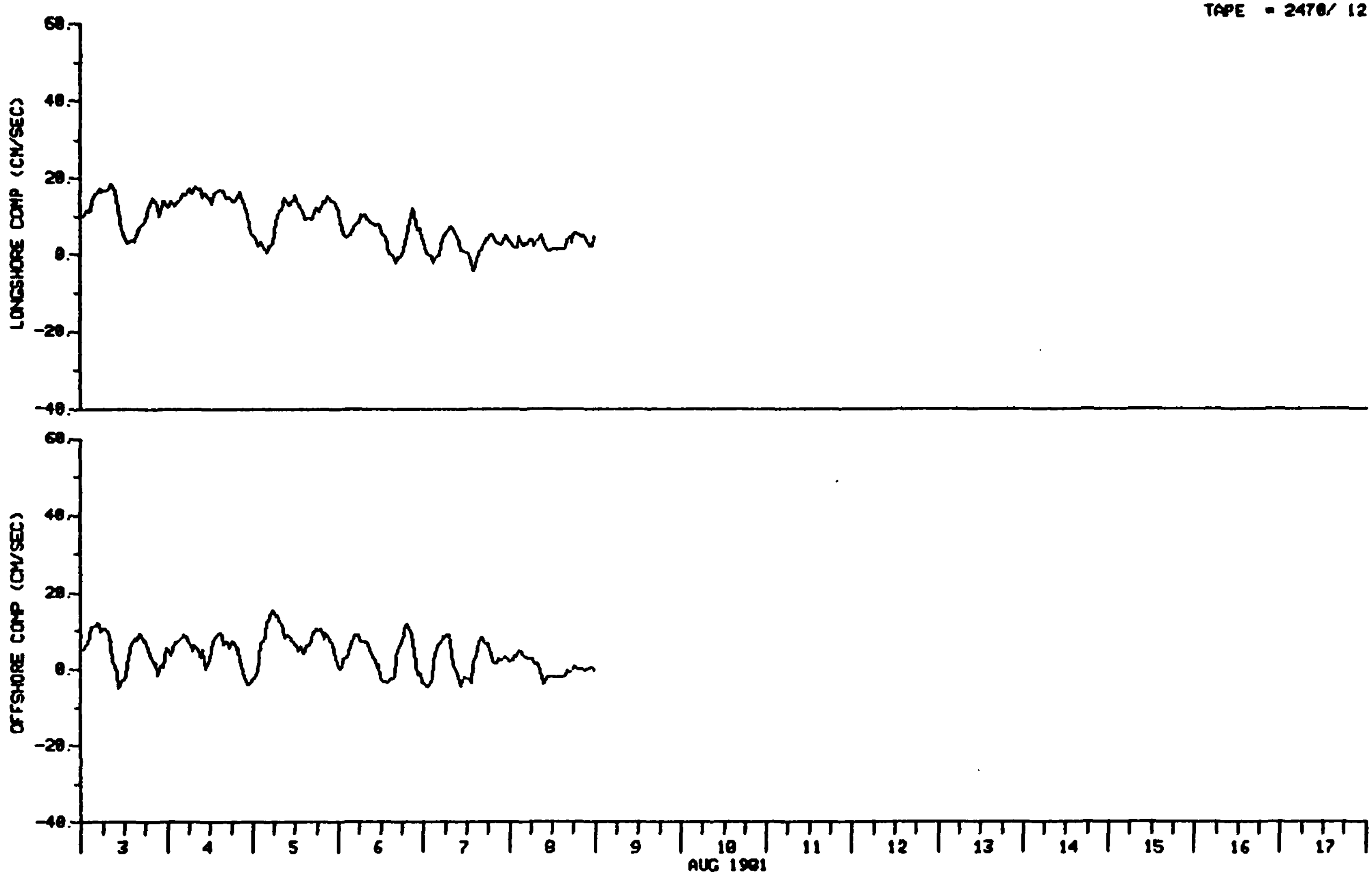

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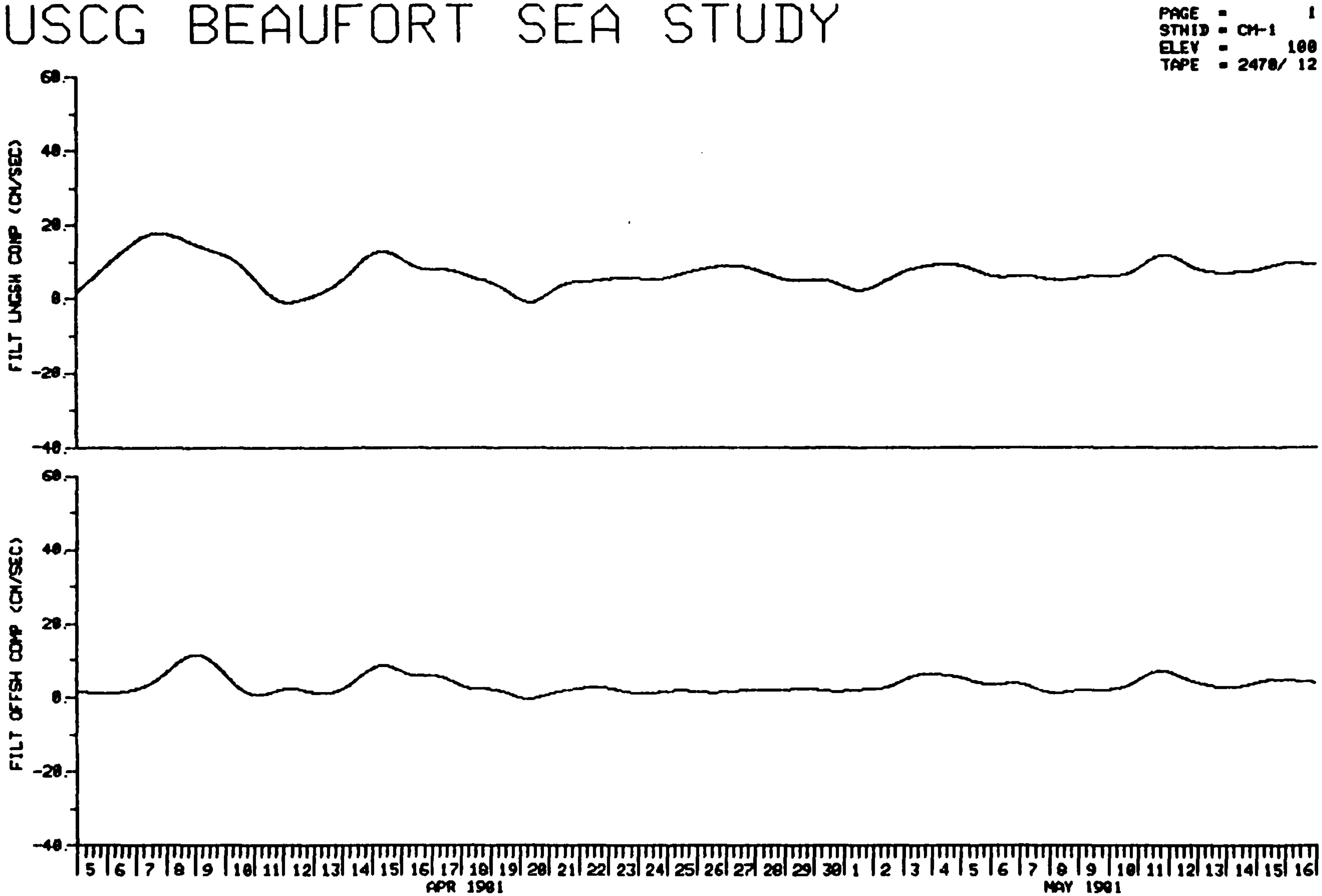

USCG BEAUFORT SEA STUDY

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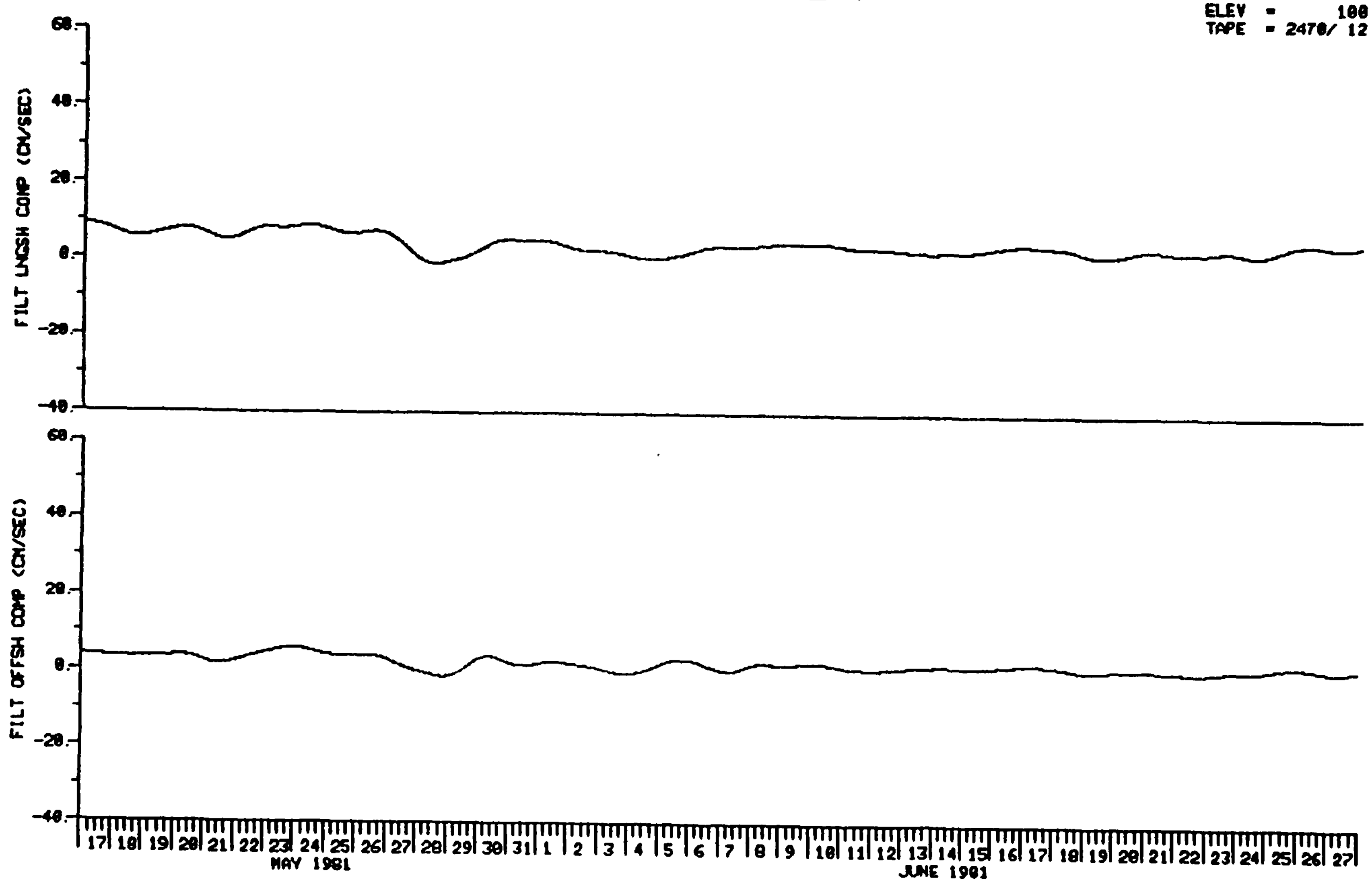

USCG BEAUFORT SEA STUDY

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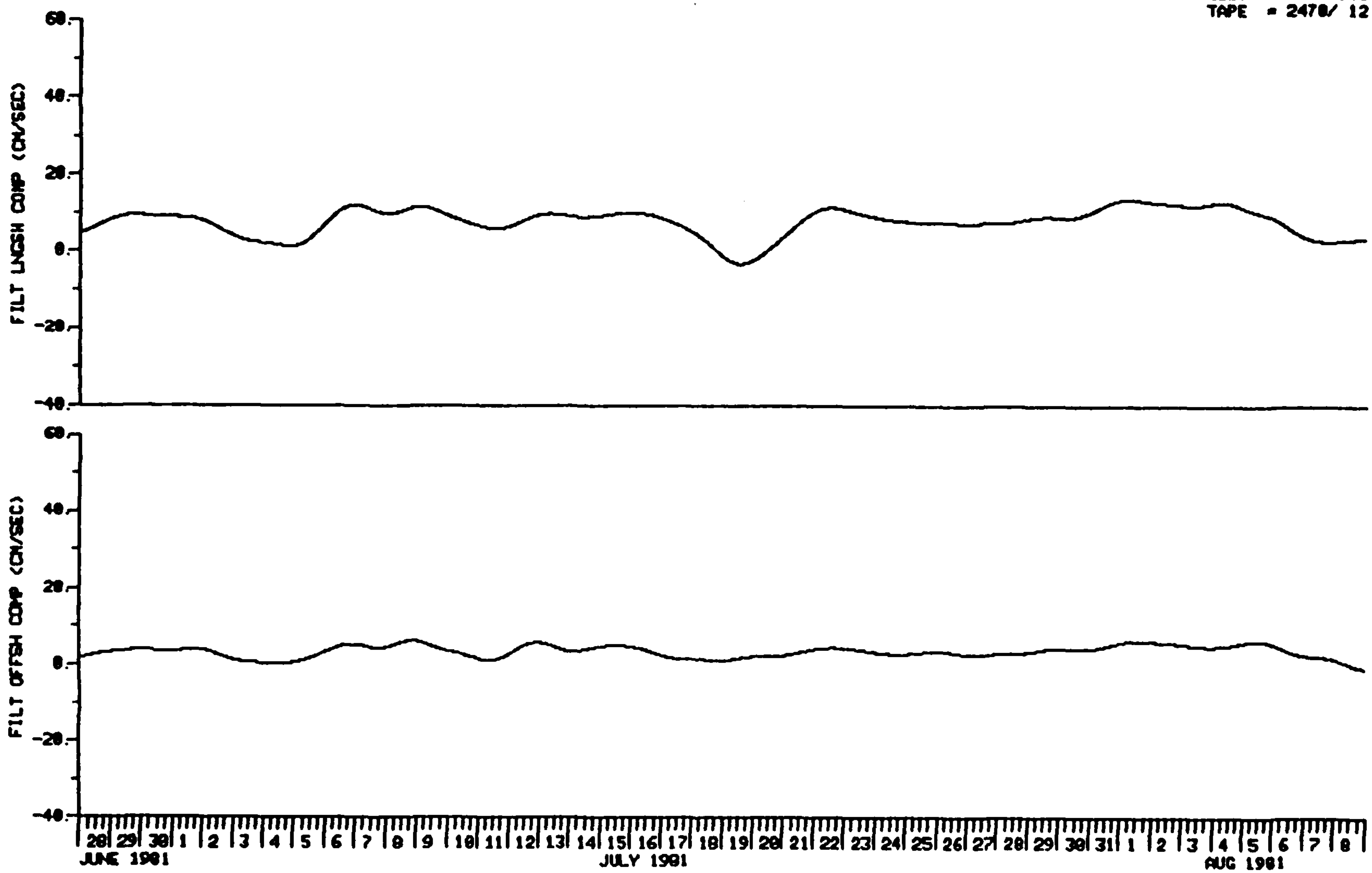

CM21

39 m depth
70° 56.5' N   132° 09.0' W
5 April 1981 to 9 August 1981
Longshore direction is 65° T
Offshore direction is 335° T

Filter is 25 hour low pass
$A_{24}^{2} A_{25}$ (Godin, 1972)

USCG BEAUFORT SEA STUDY

PAGE = 1
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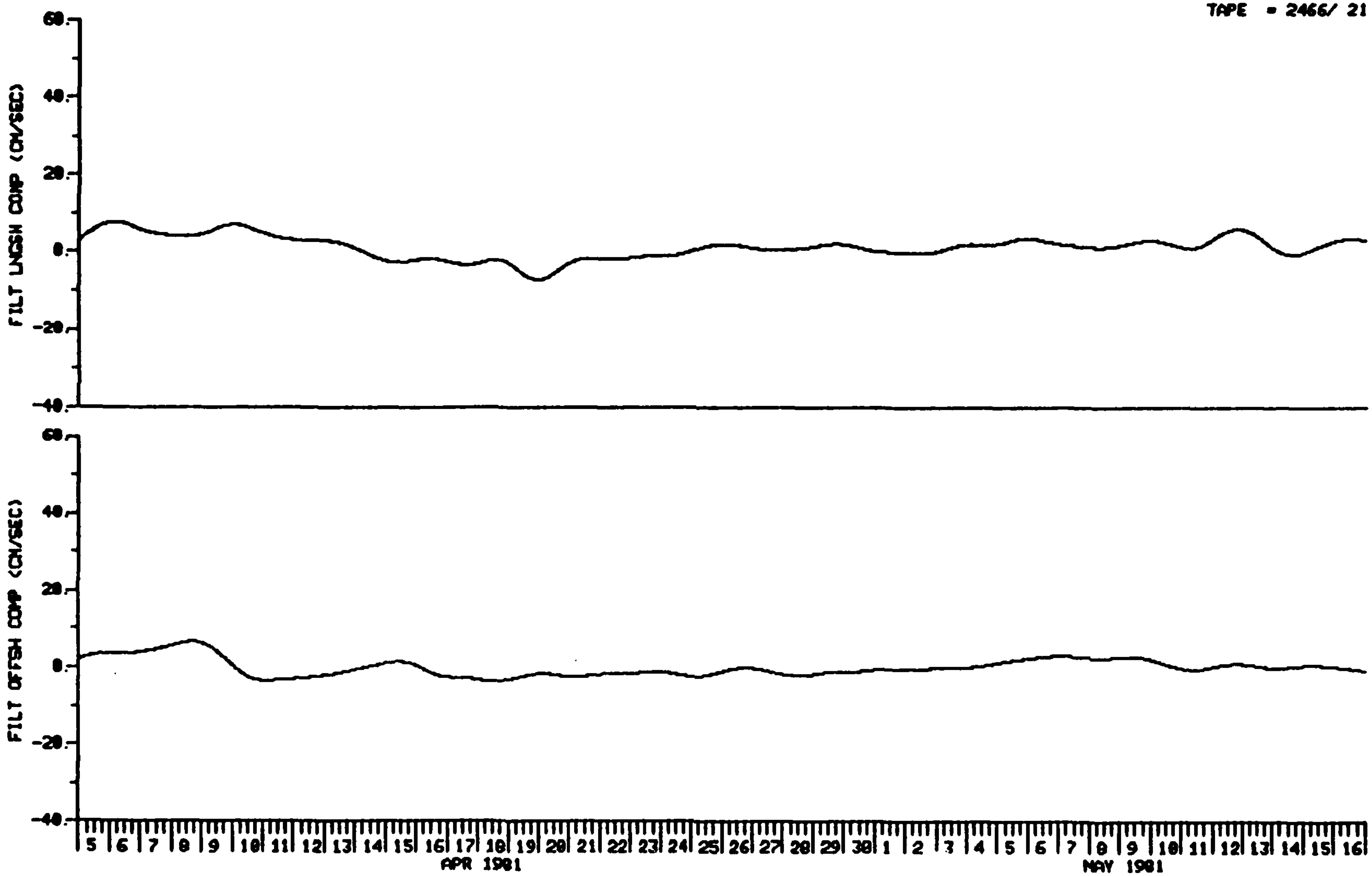
TAPE = 2466/ 21



USCG BEAUFORT SEA STUDY

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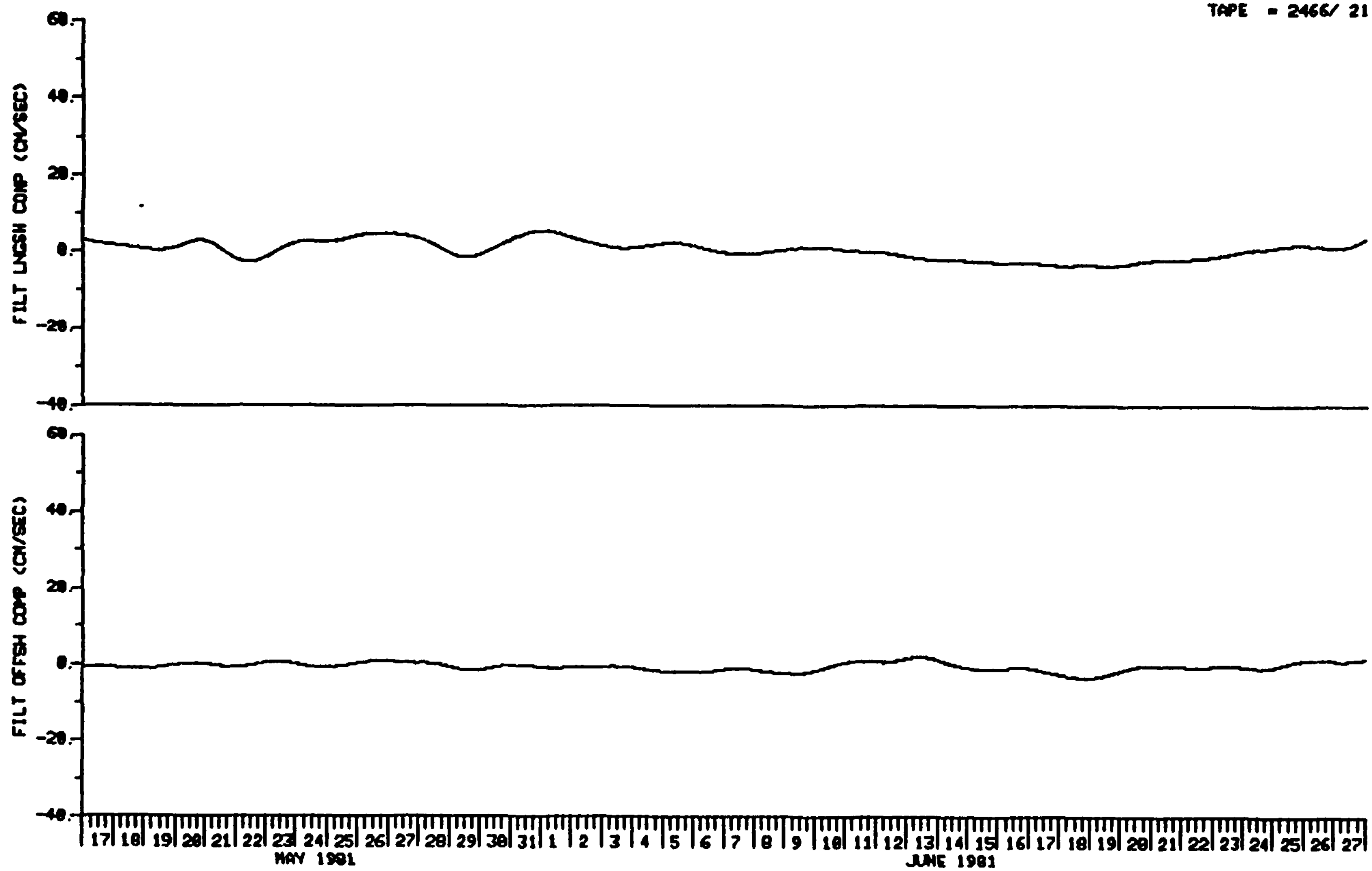

USCG BEAUFORT SEA STUDY

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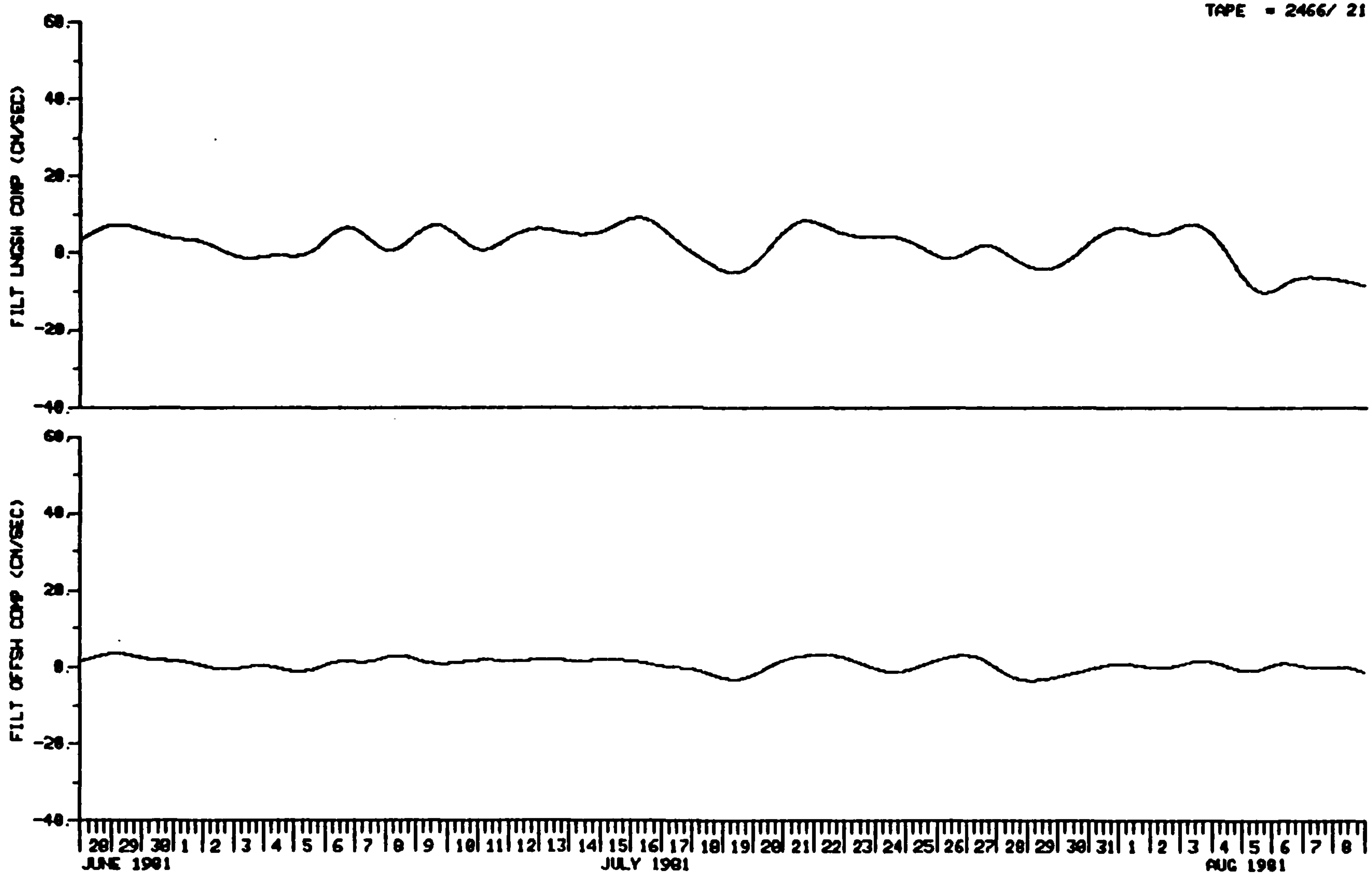
STNID = CM-2
ELEV = 42
TAPE = 2466/ 21



USCG BEAUFORT SEA STUDY

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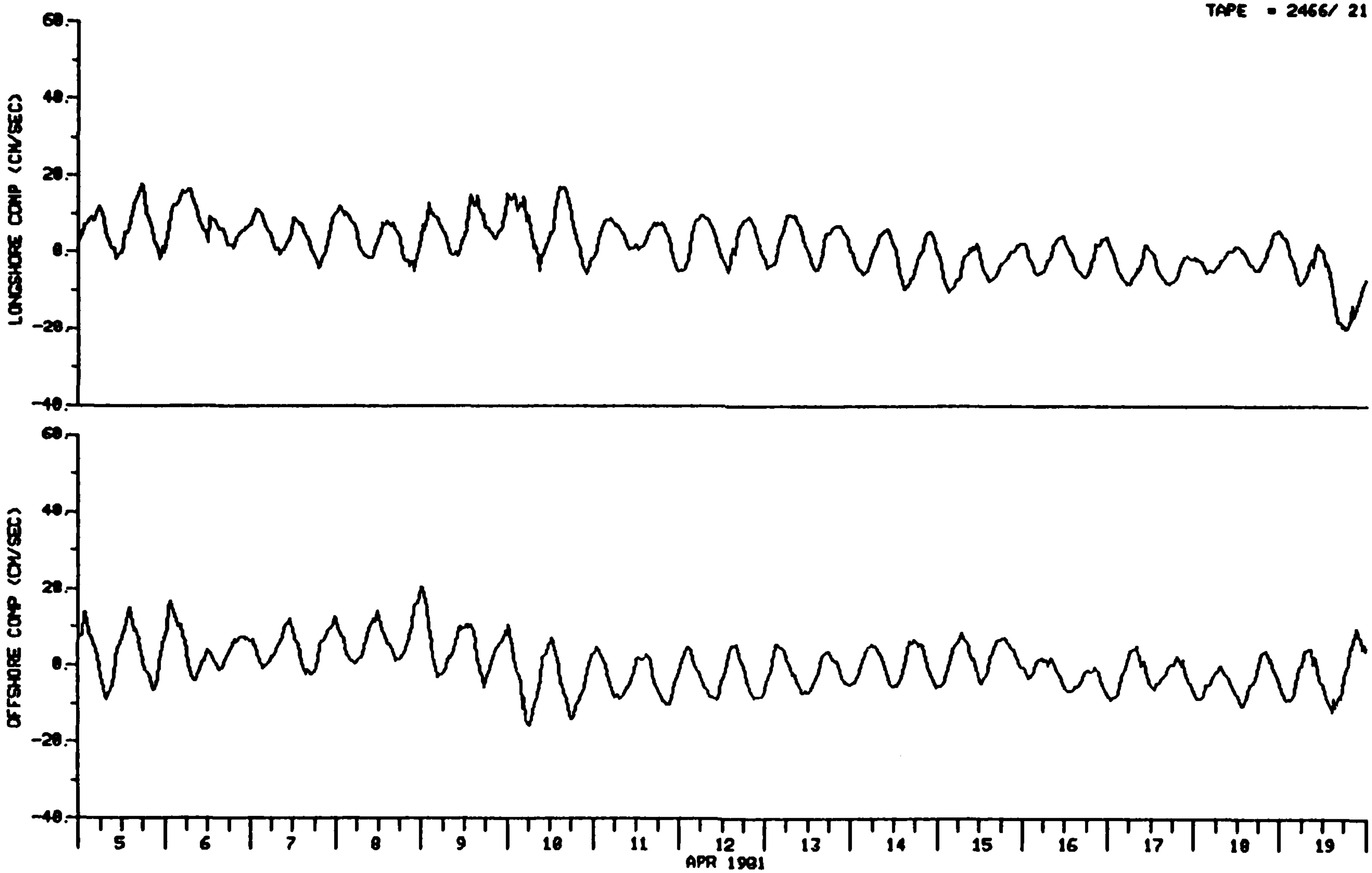
STNID = CM-2
DEPTH = 42
TAPE = 2466/ 21



USCG BEAUFORT SEA STUDY

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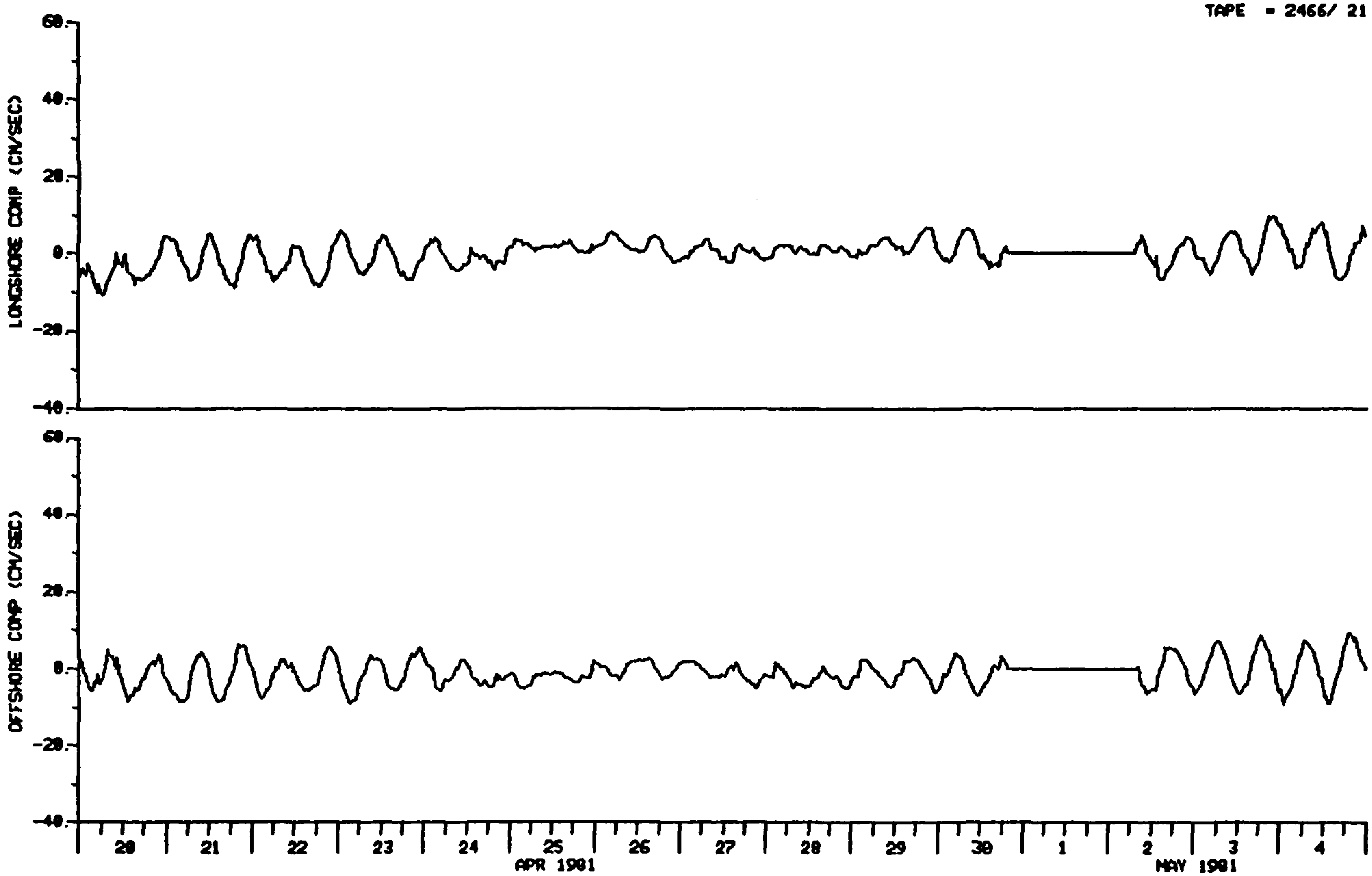
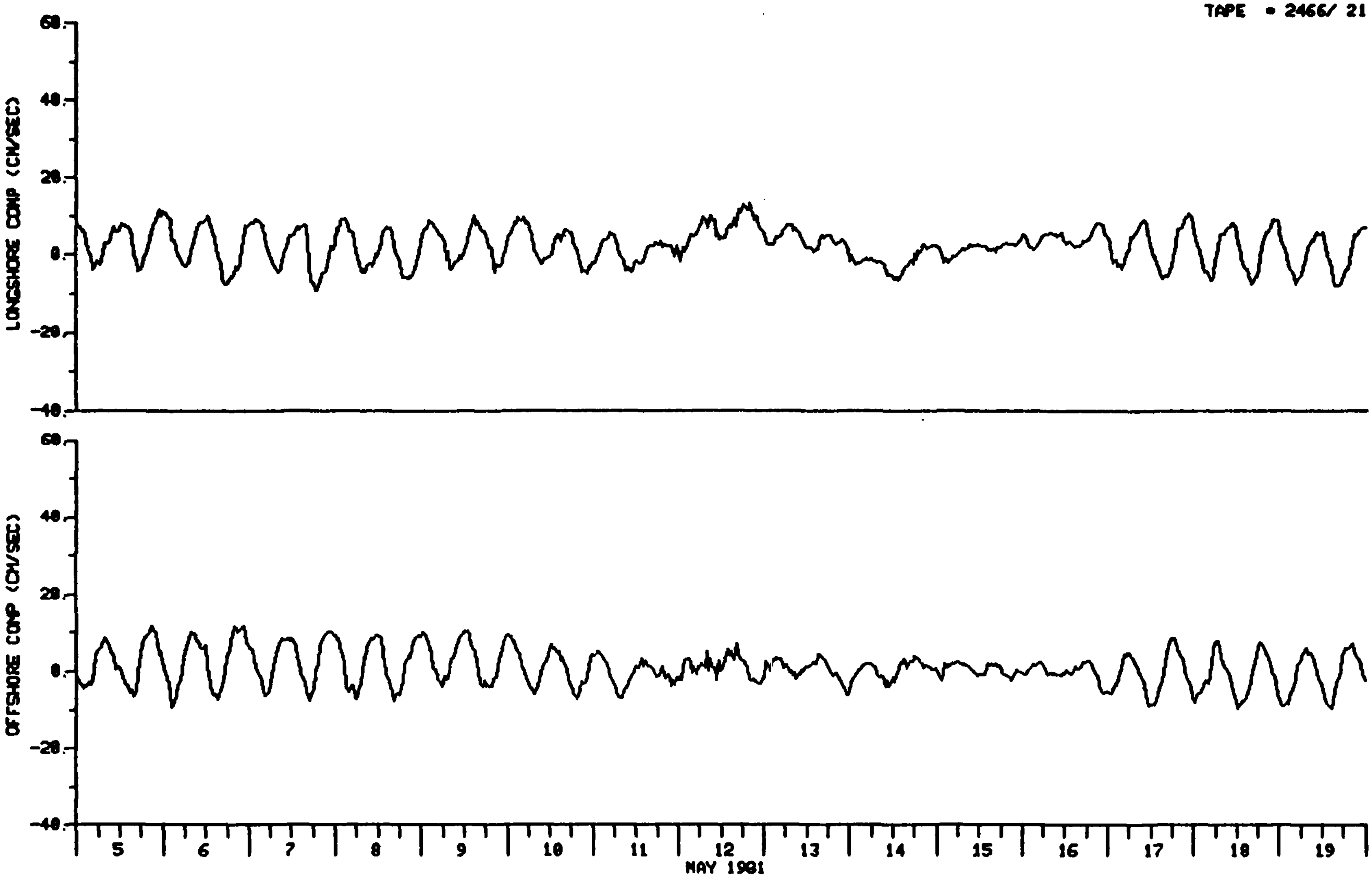


USCG BEAUFORT SEA STUDY



USCG BEAUFORT SEA STUDY

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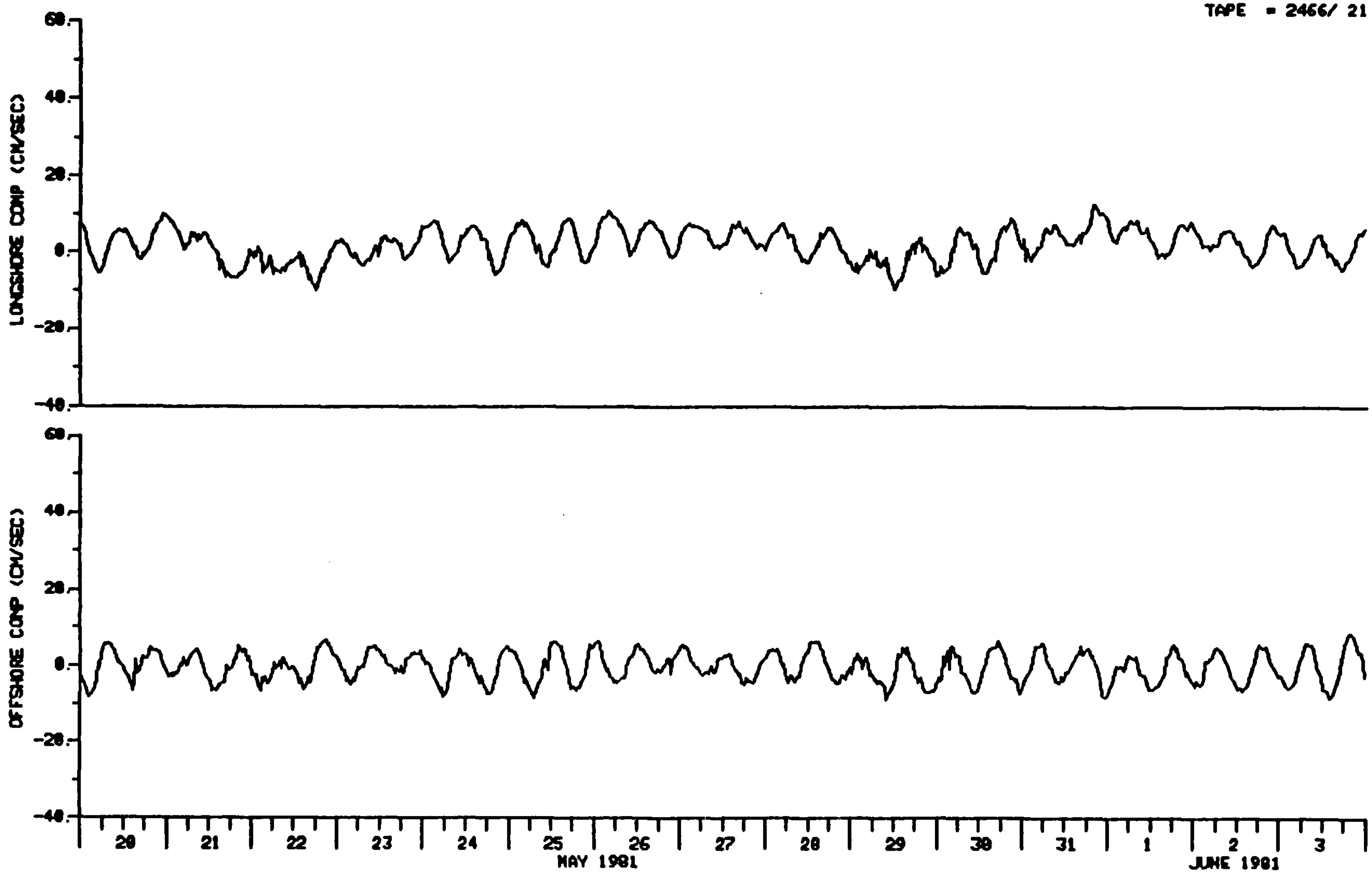

USCG BEAUFORT SEA STUDY

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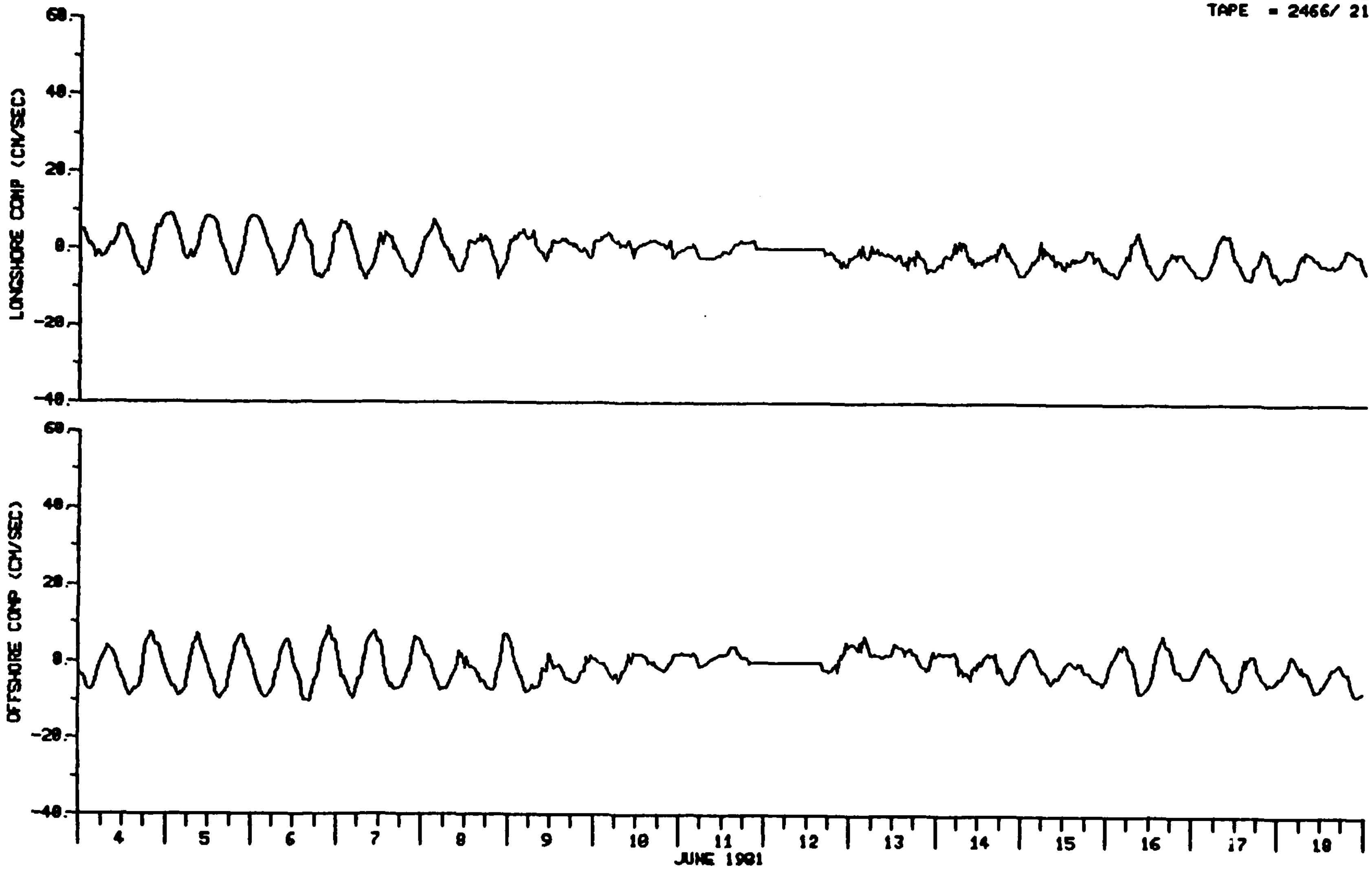

USCG BEAUFORT SEA STUDY

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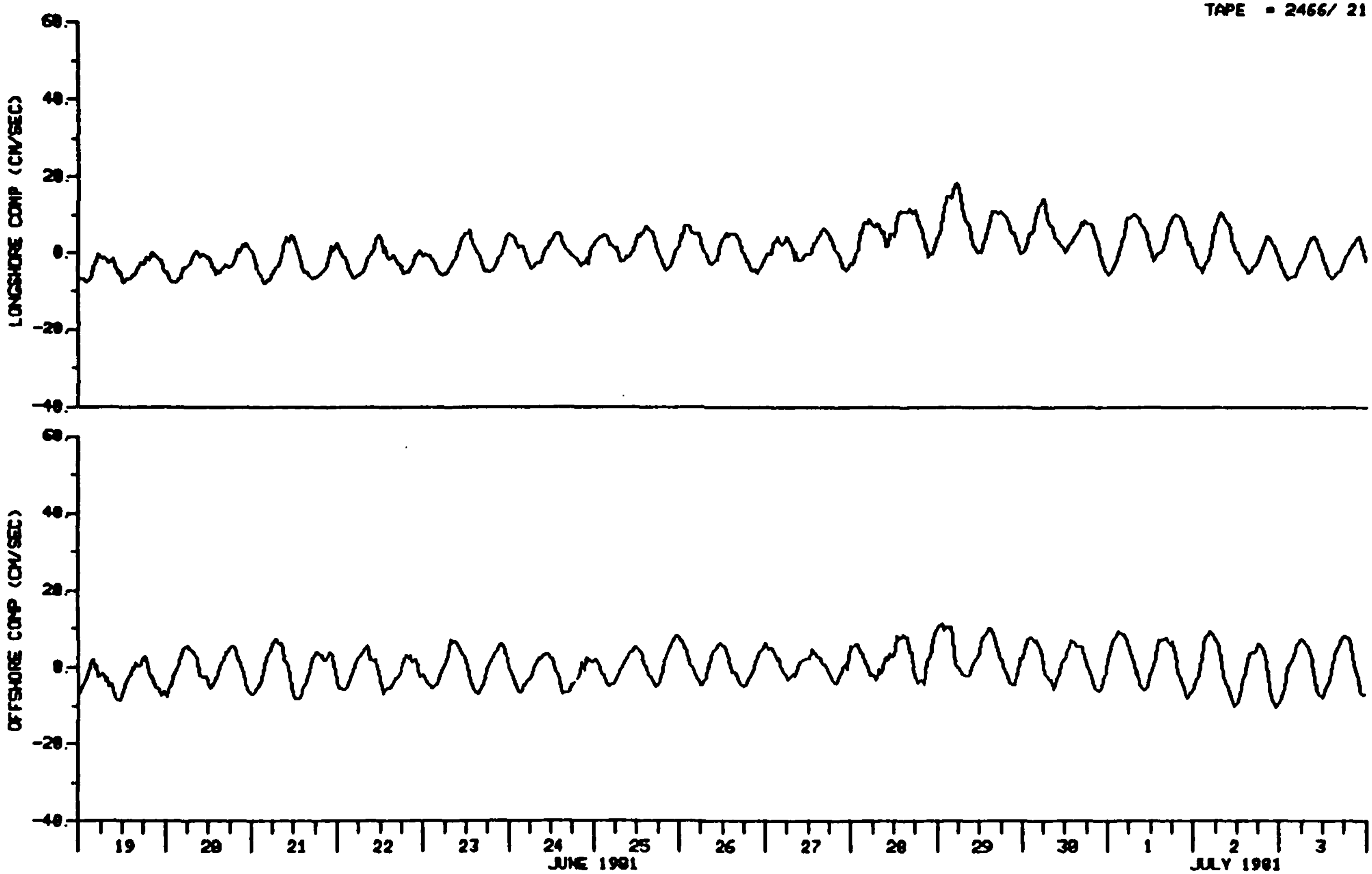

USCG BEAUFORT SEA STUDY

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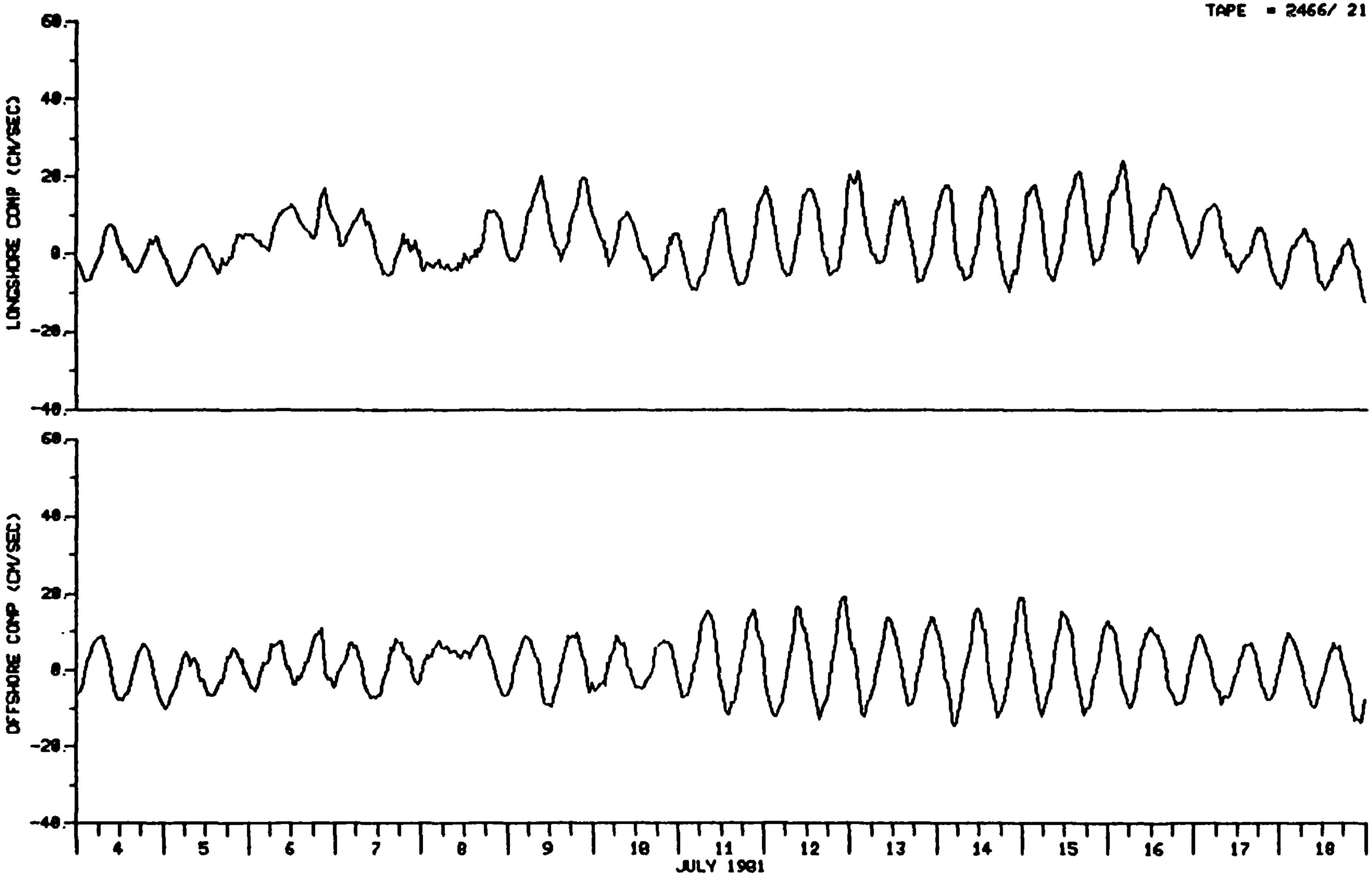

USCG BEAUFORT SEA STUDY

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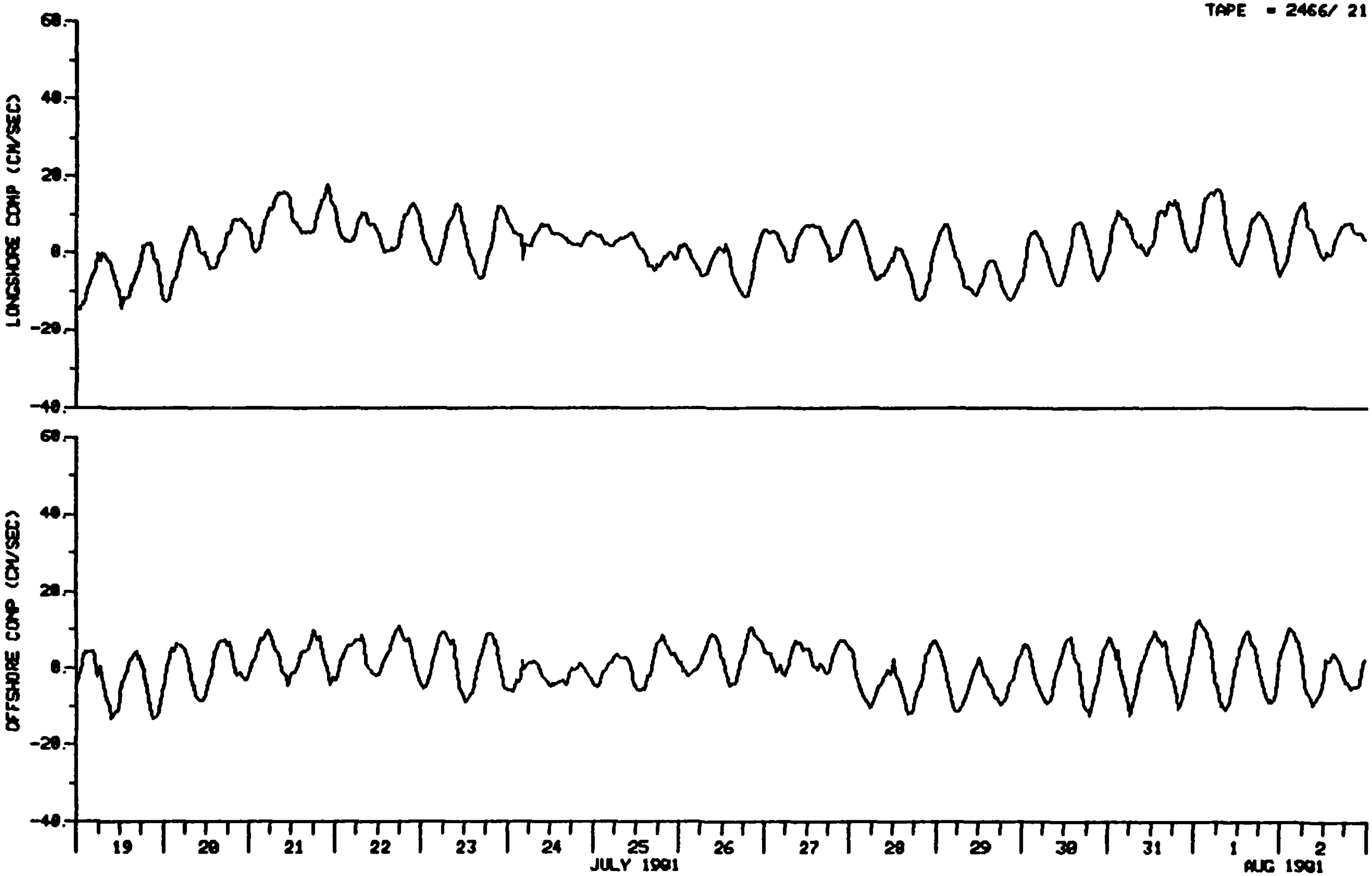

USCG BEAUFORT SEA STUDY

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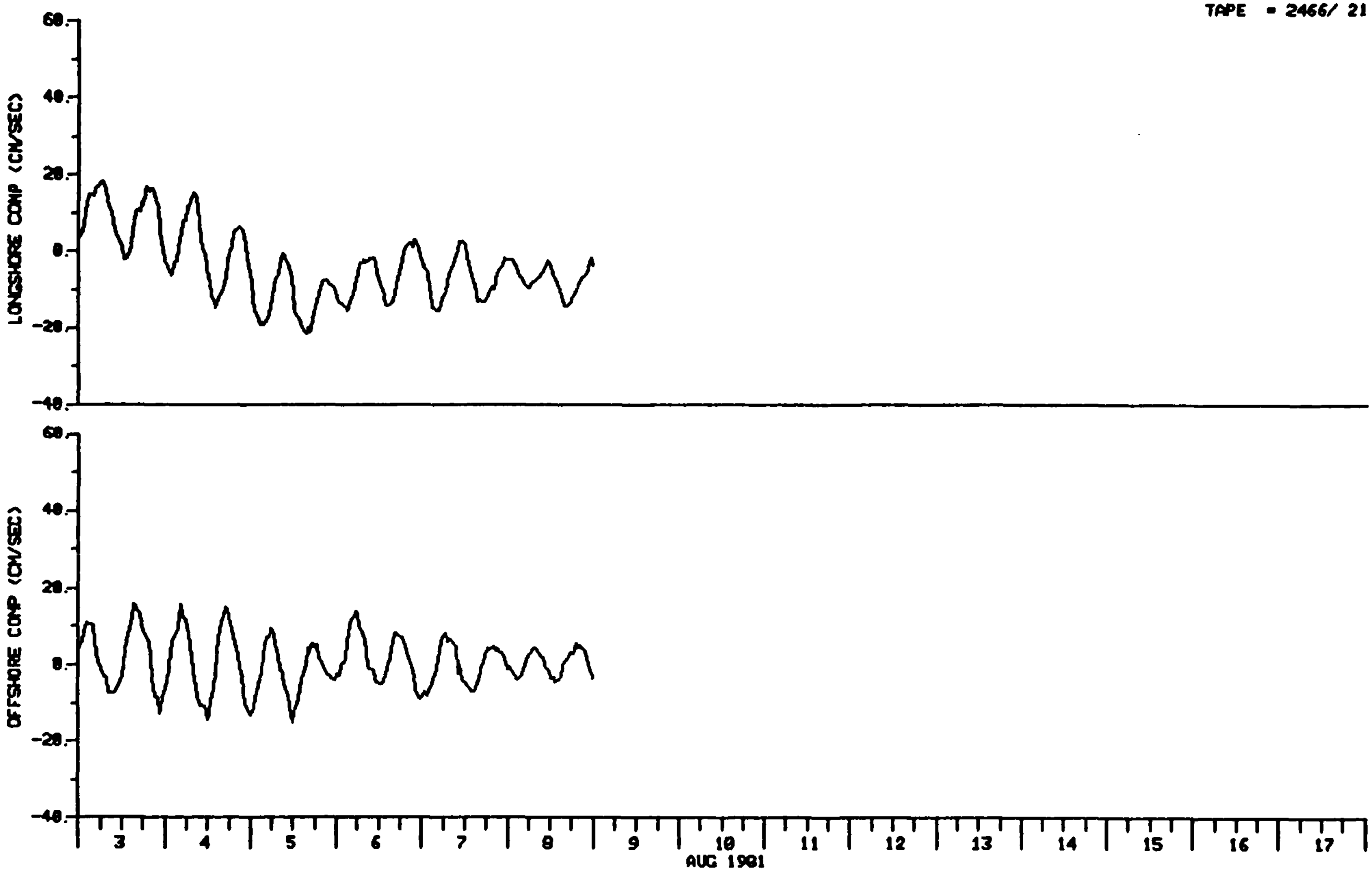

CM22

72 m depth
70° 56.5' N   133° 33.0' W
5 April 1981 to 9 August 1981
Longshore direction is 65° T
Offshore direction is 335° T

Filter is 25 hour low pass
$A_{24}^2 A_{25}$ (Godin, 1972)

USCG BEAUFORT SEA STUDY

PAGE = 1
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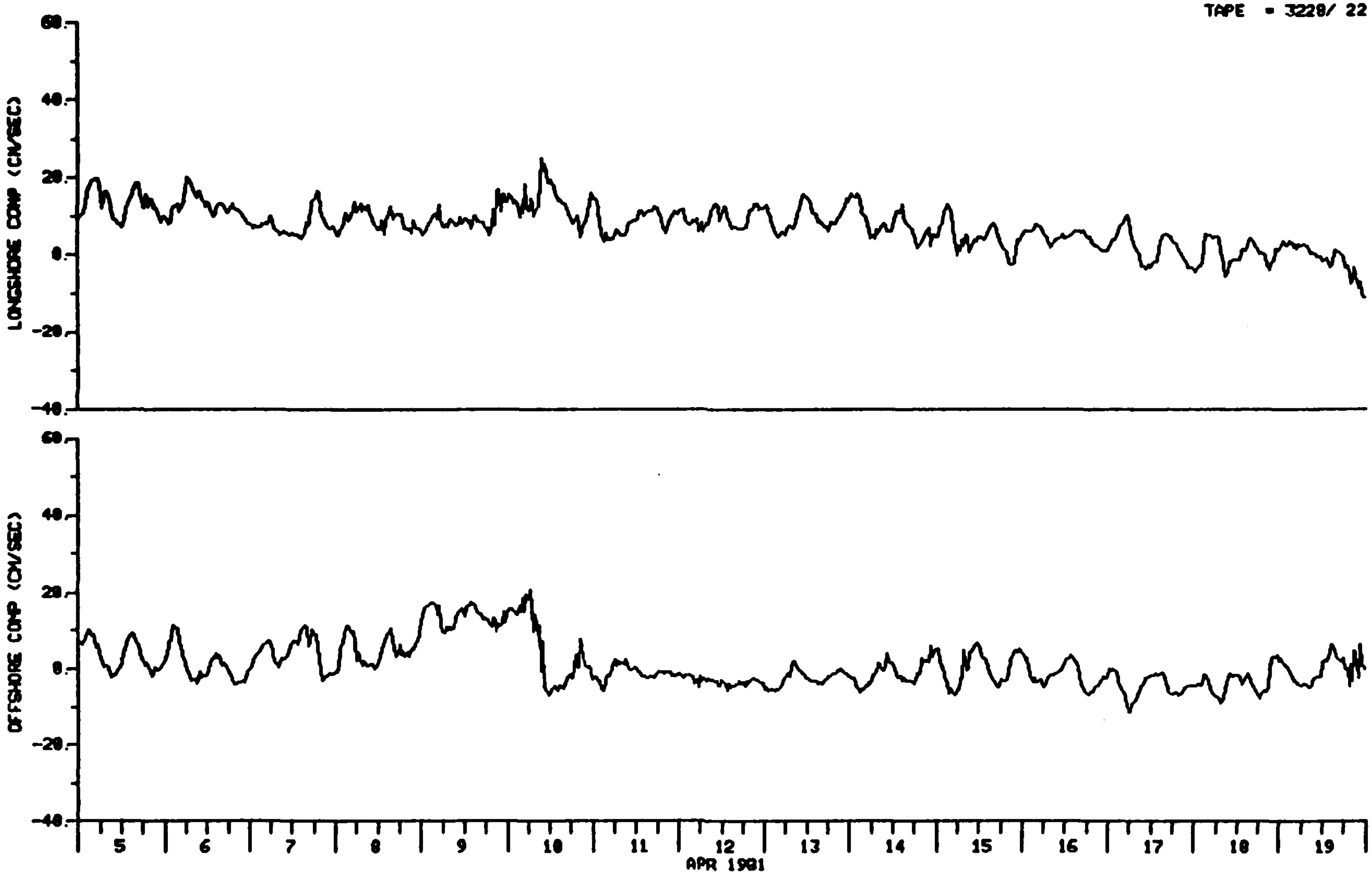

USCG BEAUFORT SEA STUDY

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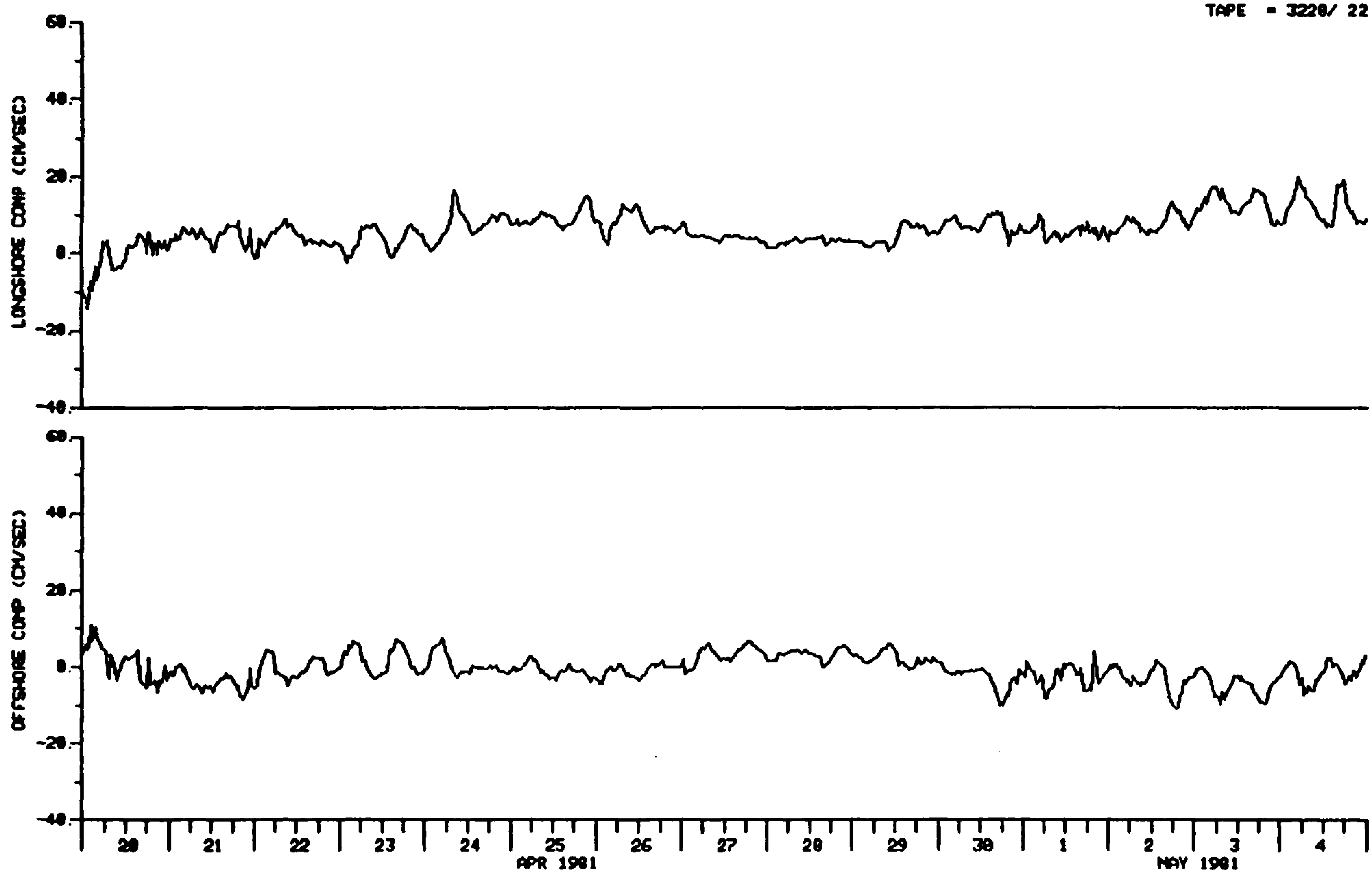

USCG BEAUFORT SEA STUDY

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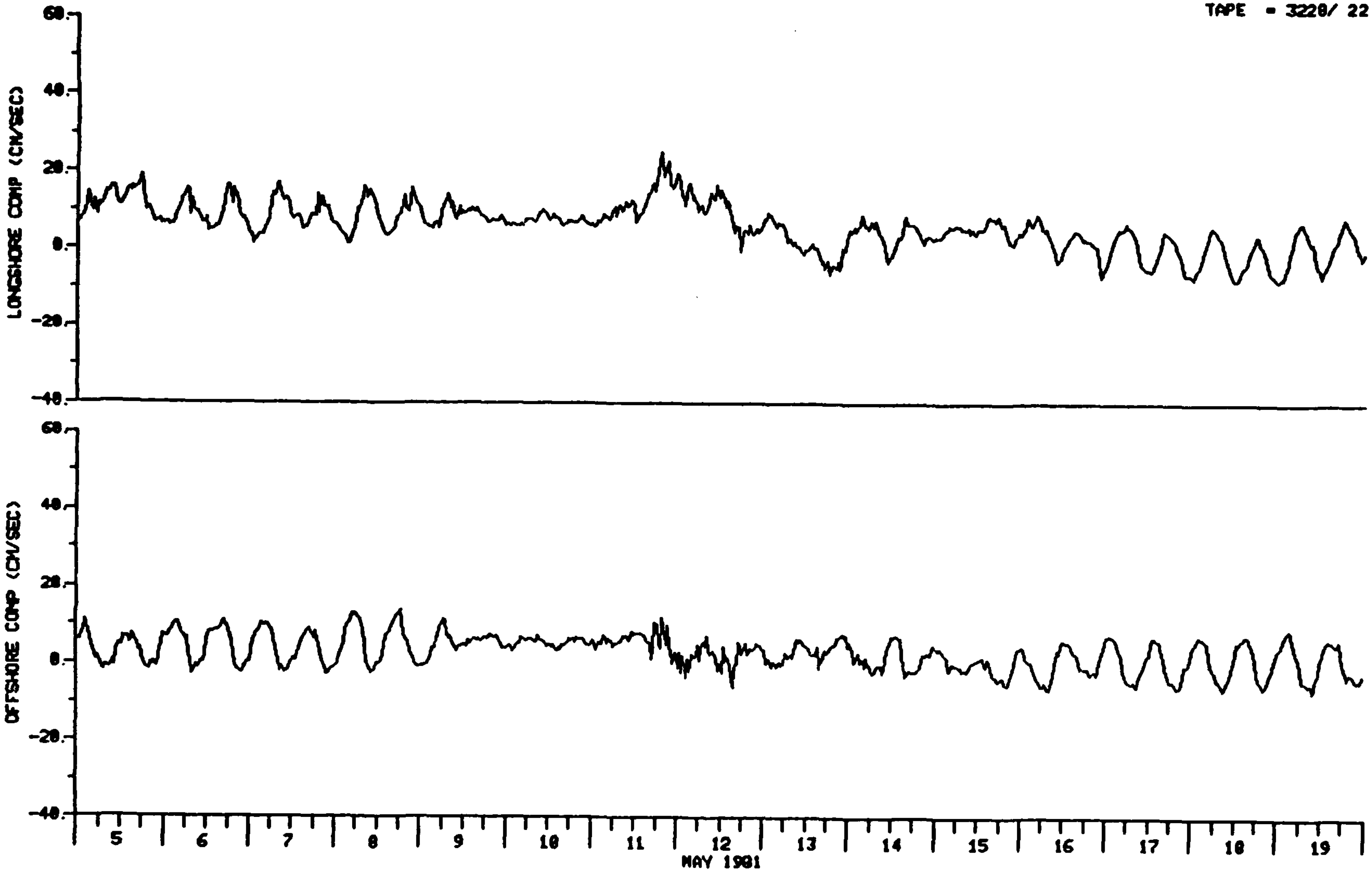

USCG BEAUFORT SEA STUDY

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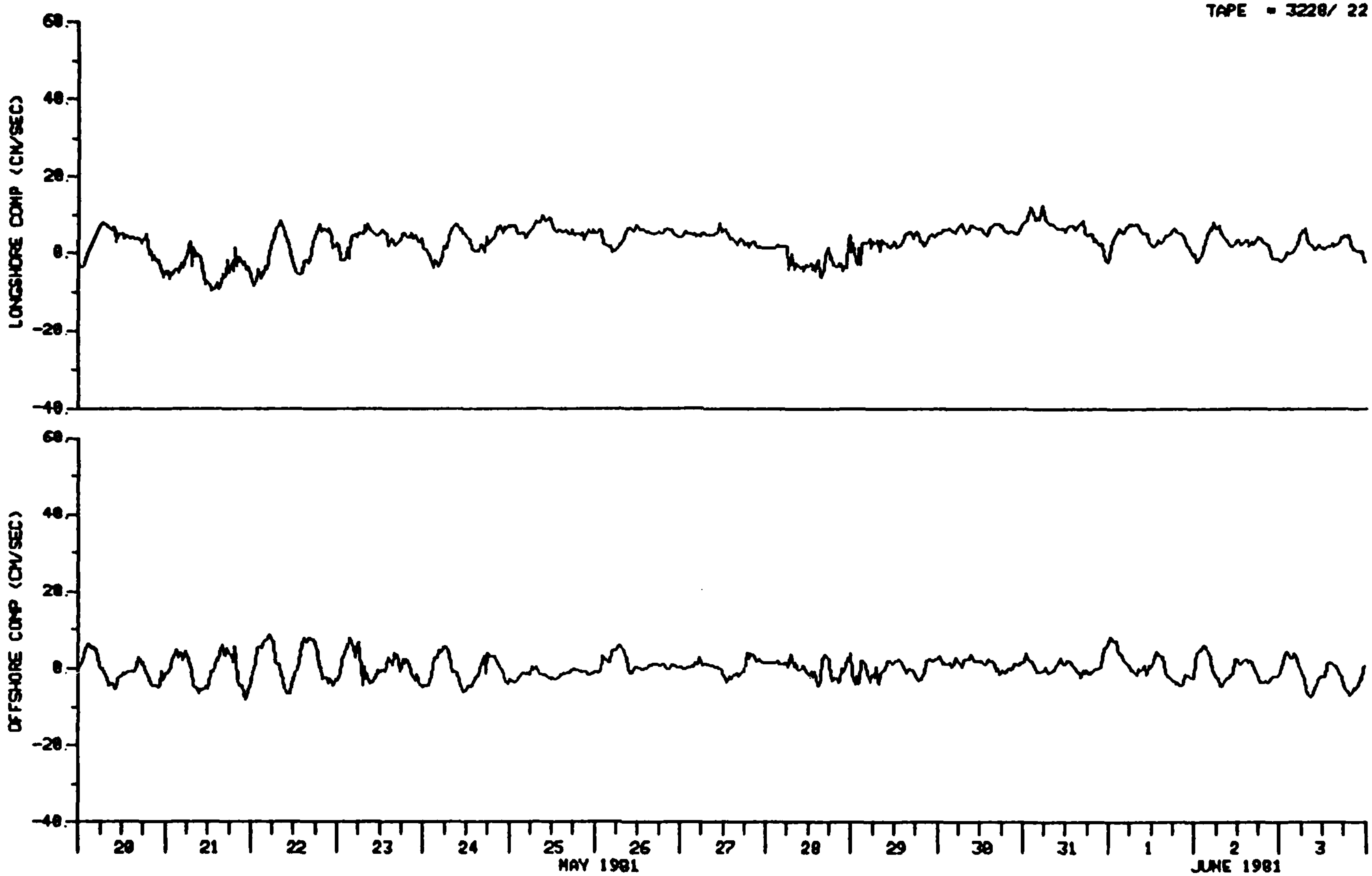

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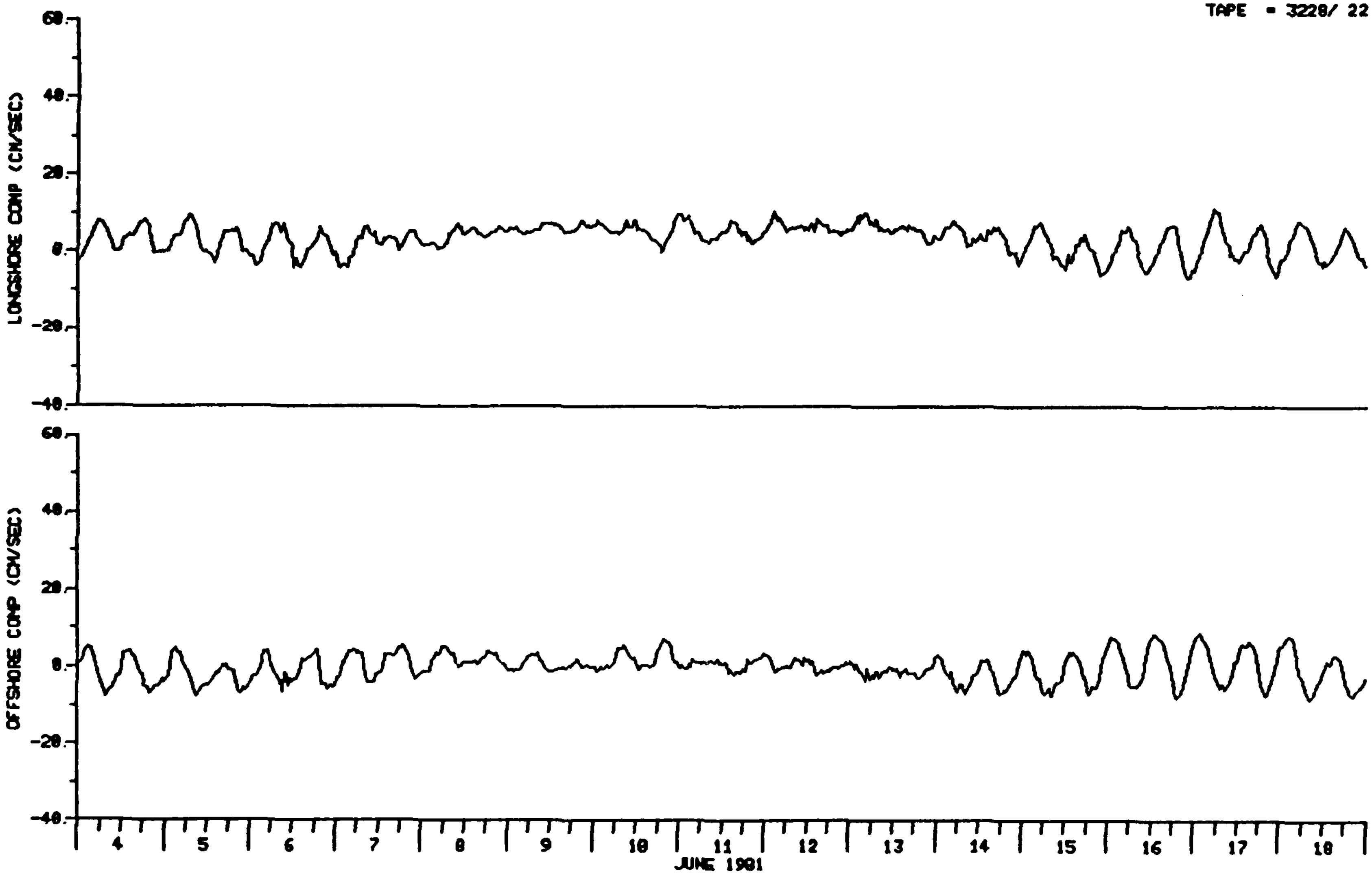

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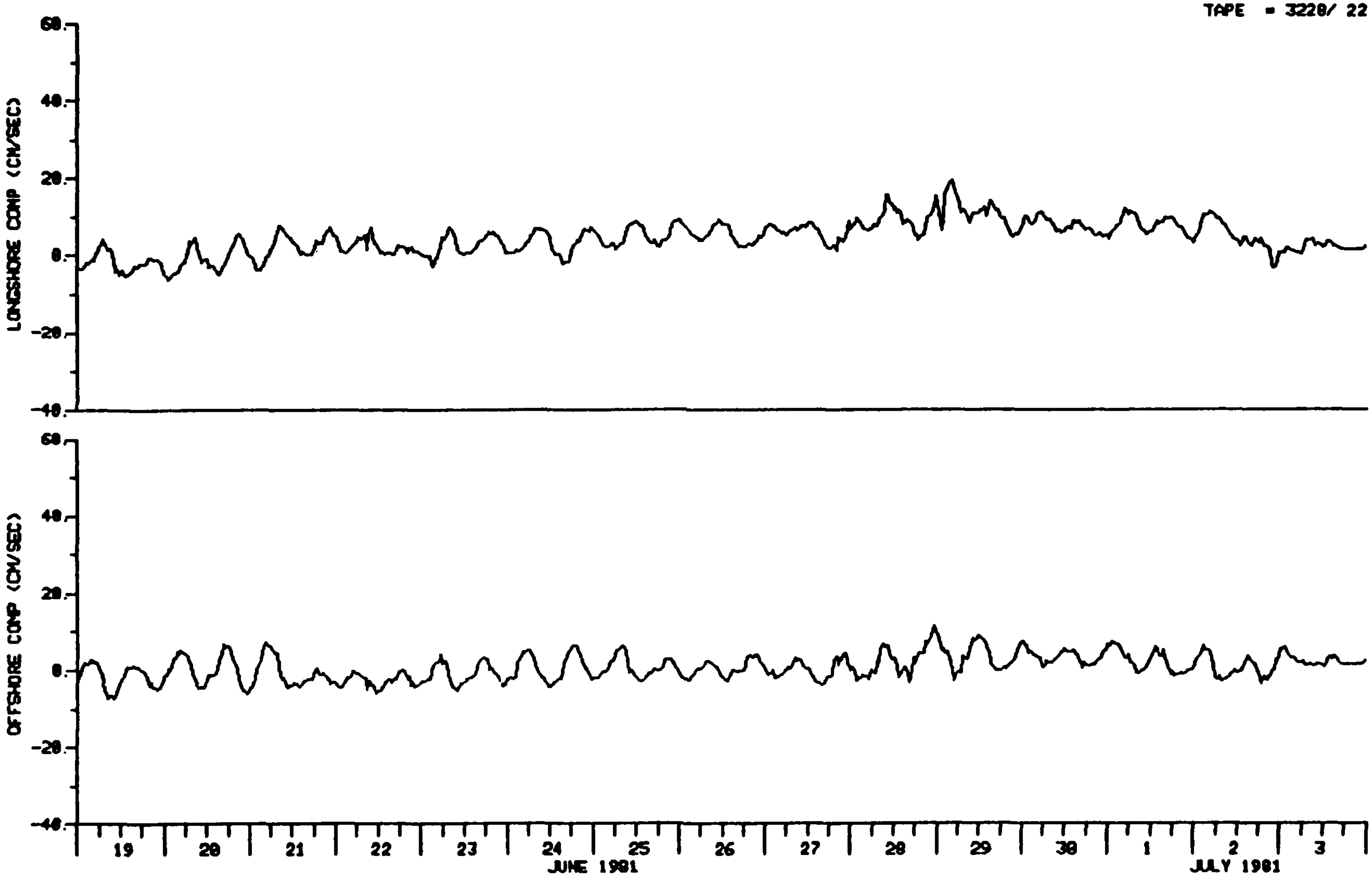

USCG BEAUFORT SEA STUDY

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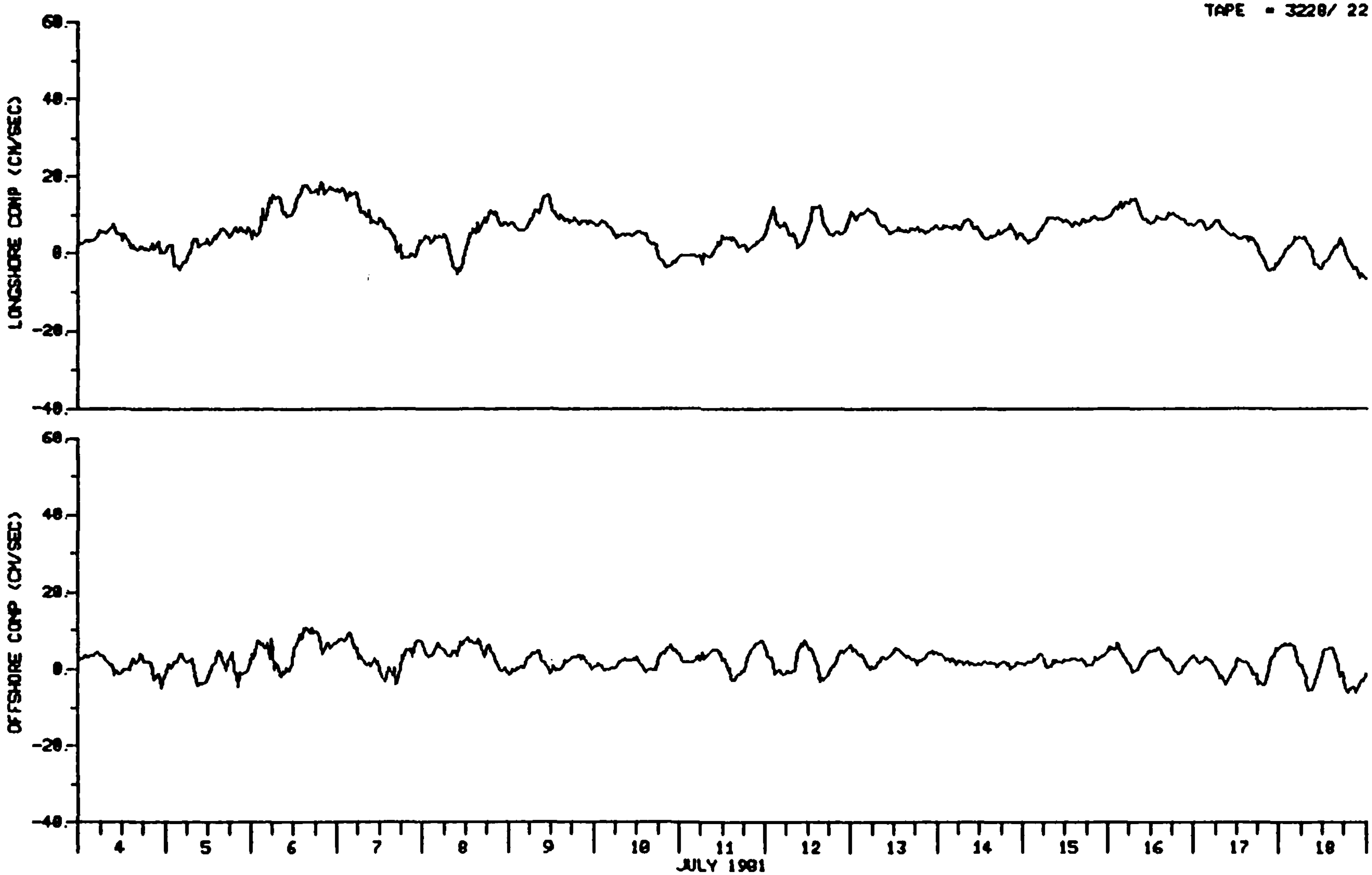

USCG BEAUFORT SEA STUDY

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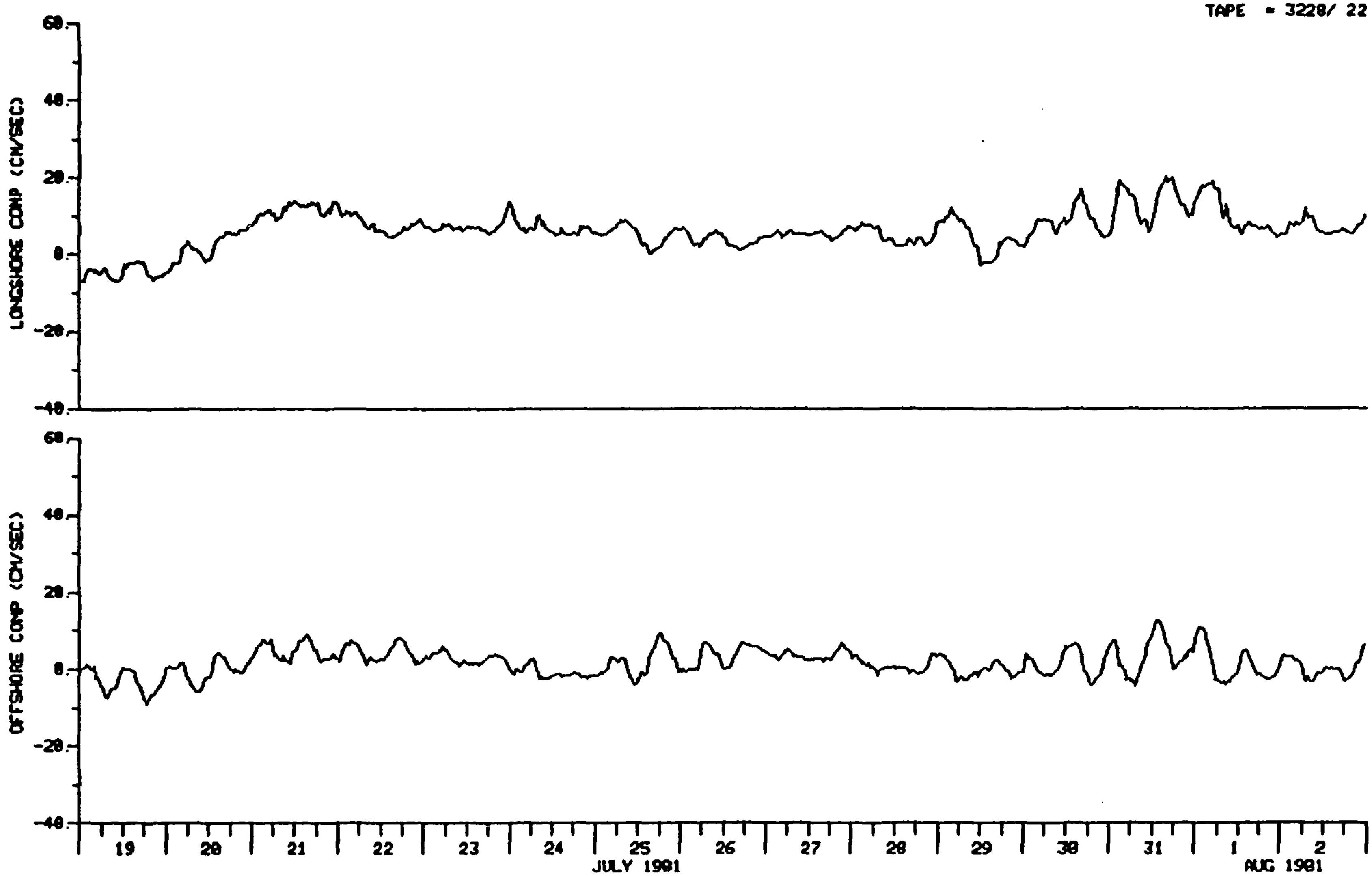

USCG BEAUFORT SEA STUDY

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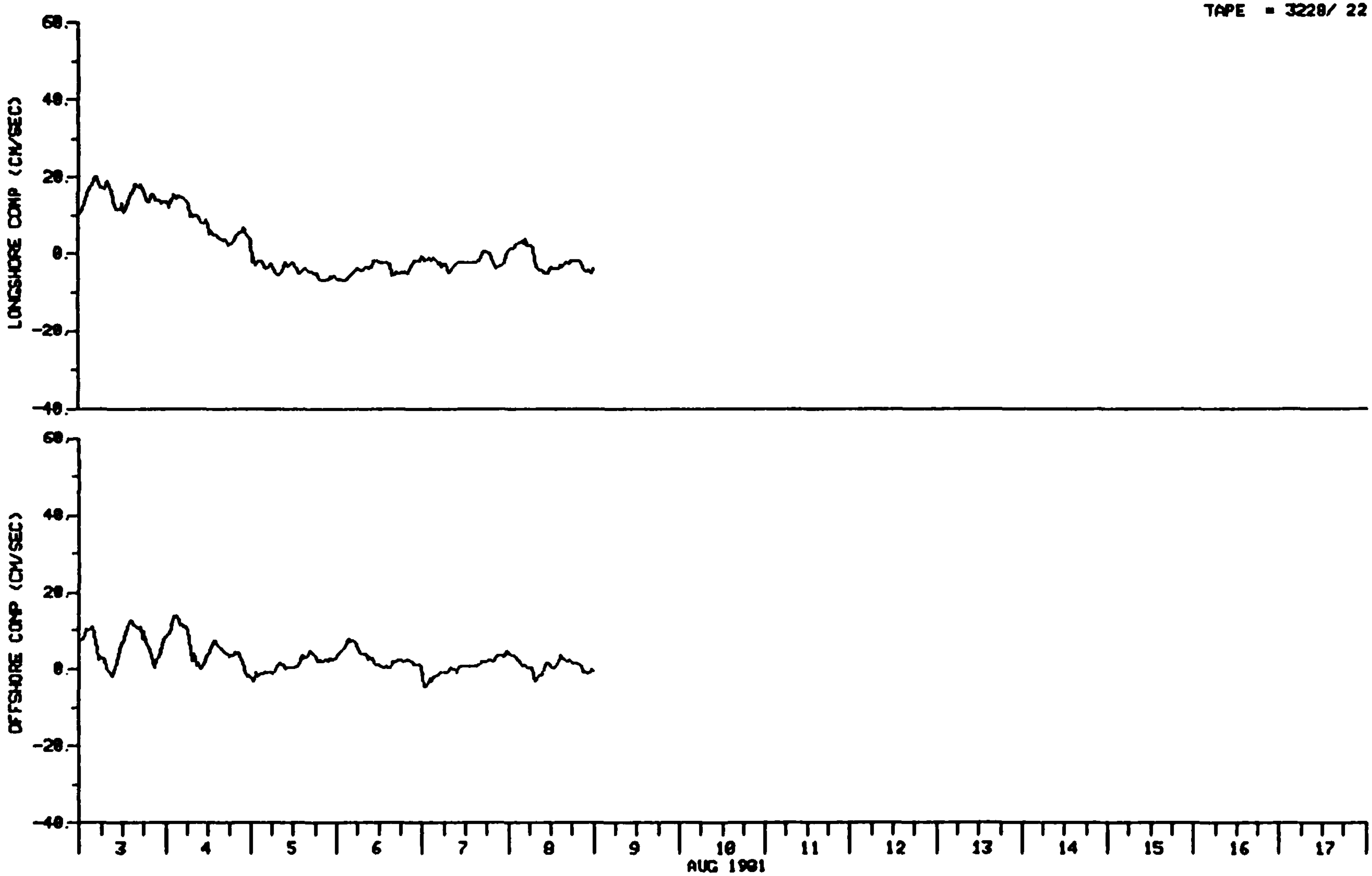

USCG BEAUFORT SEA STUDY

PAGE = 1
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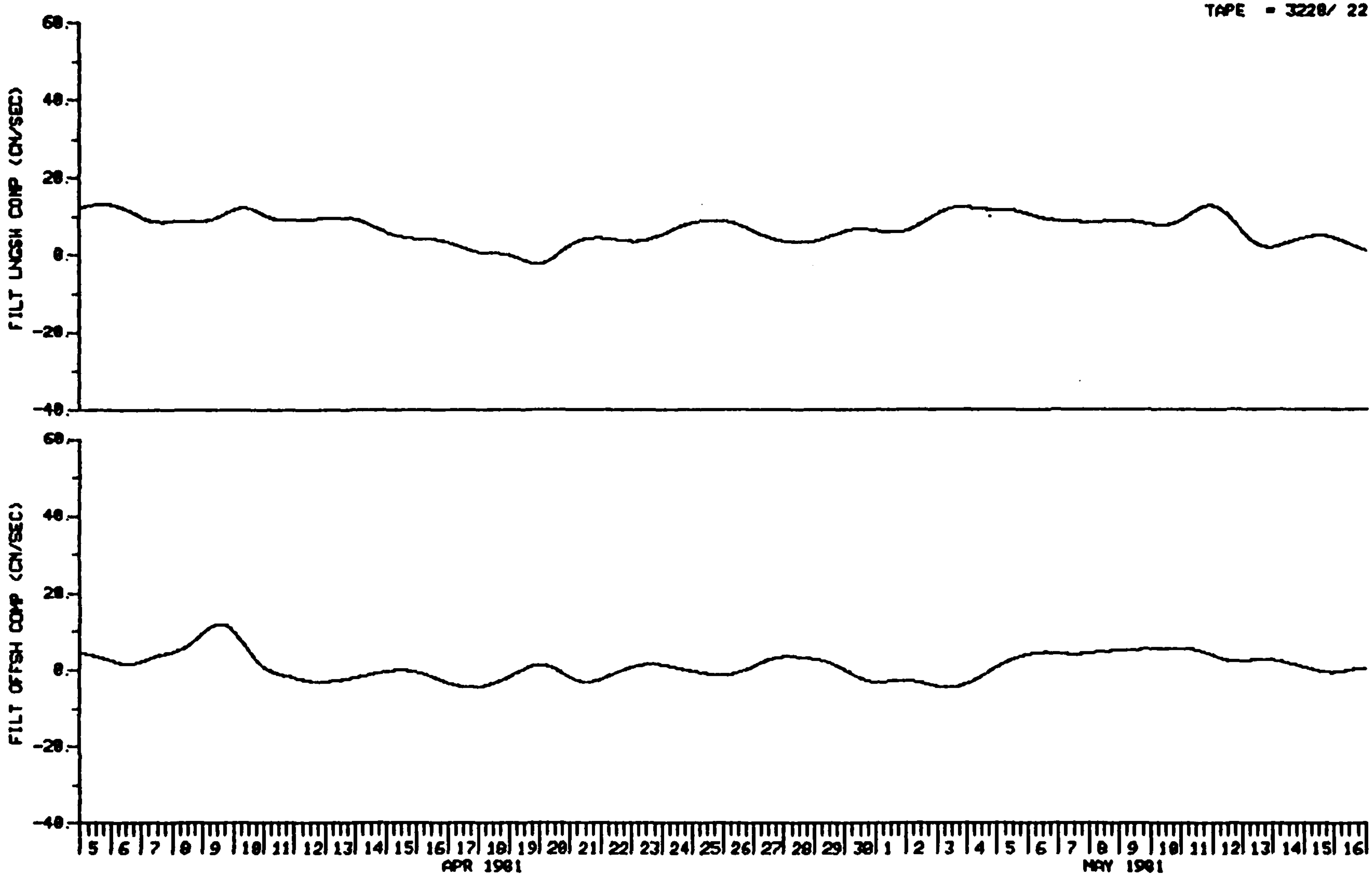
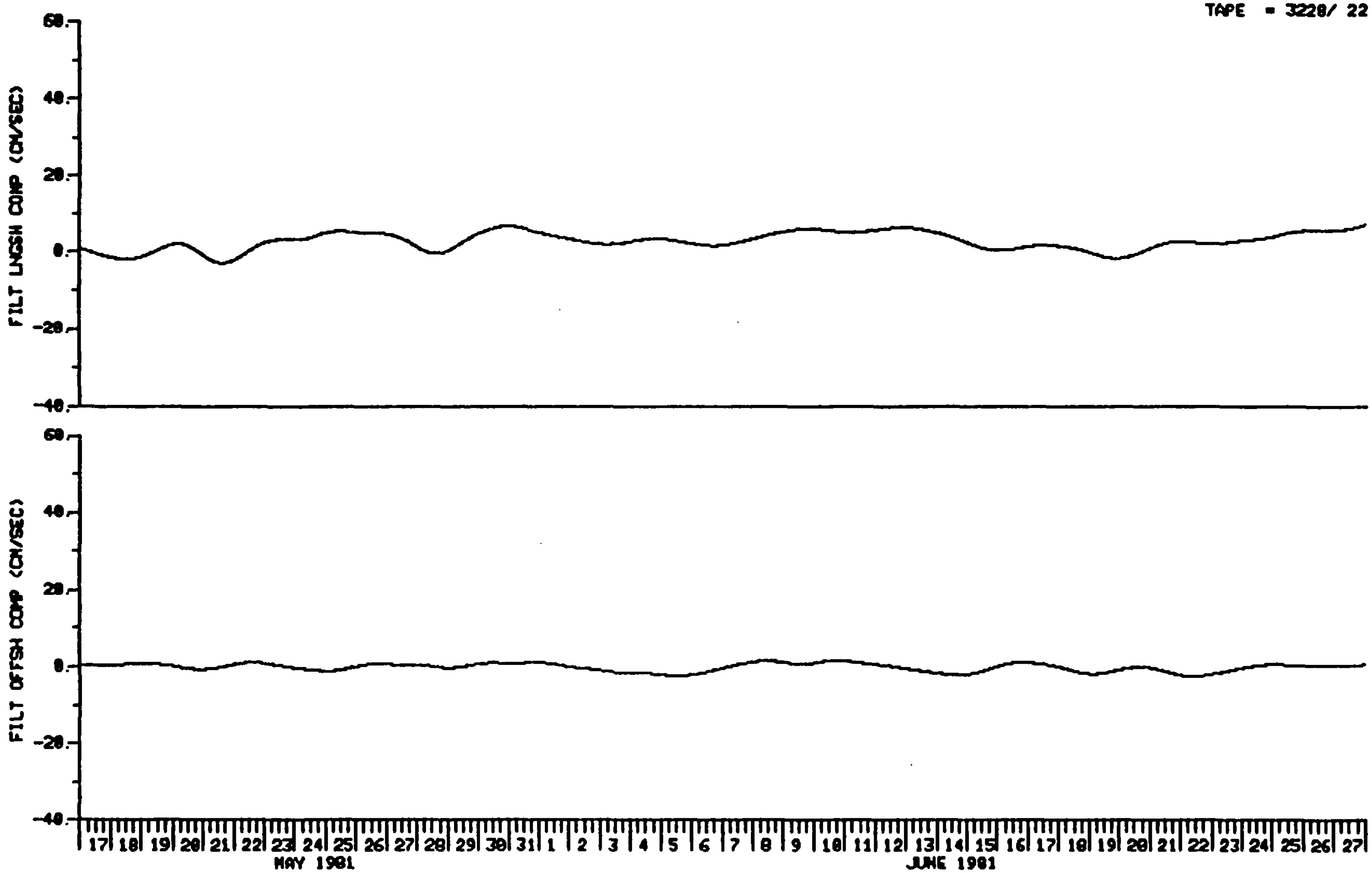


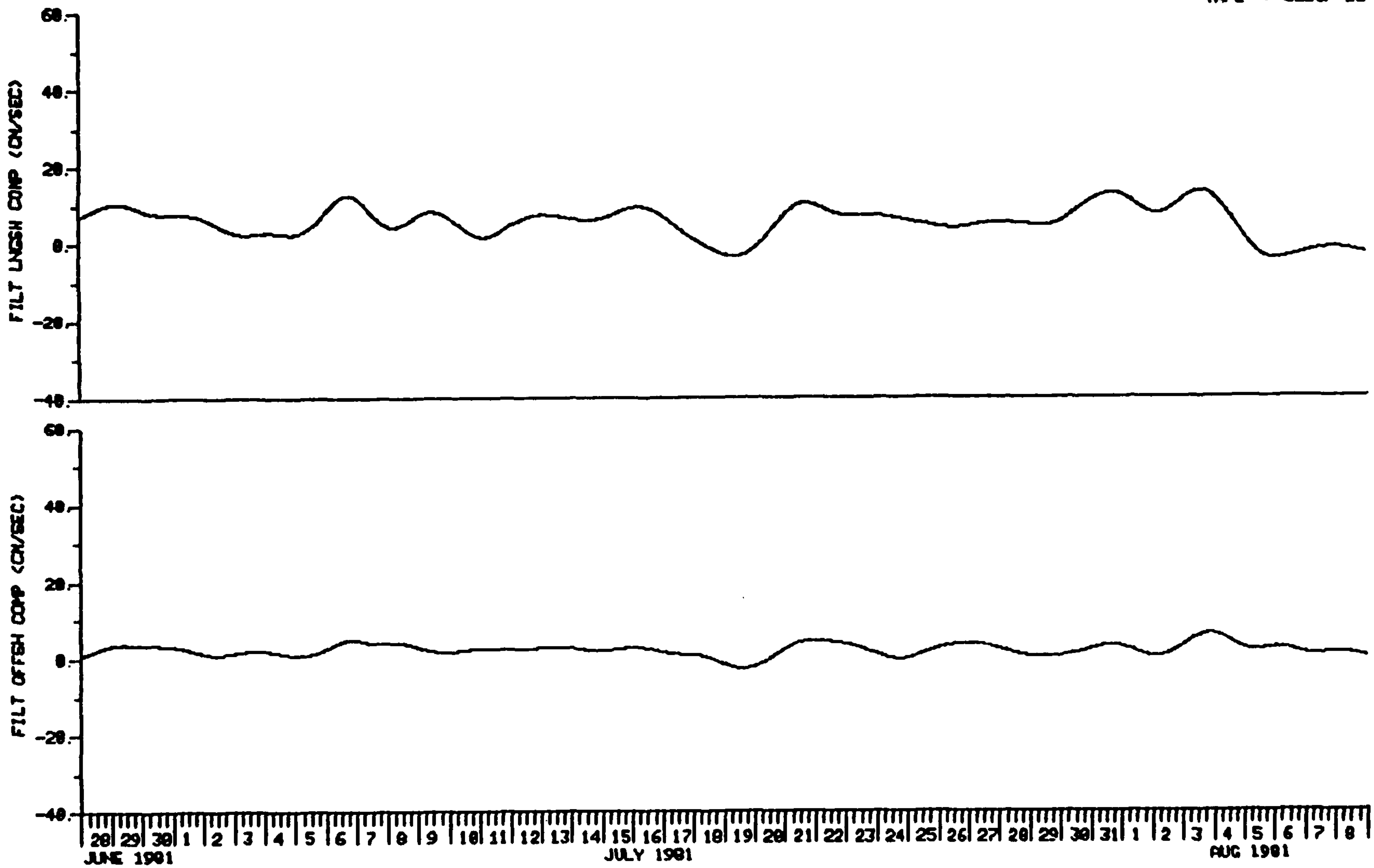
USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CM-2
ELEV = 100
TAPE = 3228/ 22



USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CM-2
ELEV = 100
TAPE = 3220/ 22



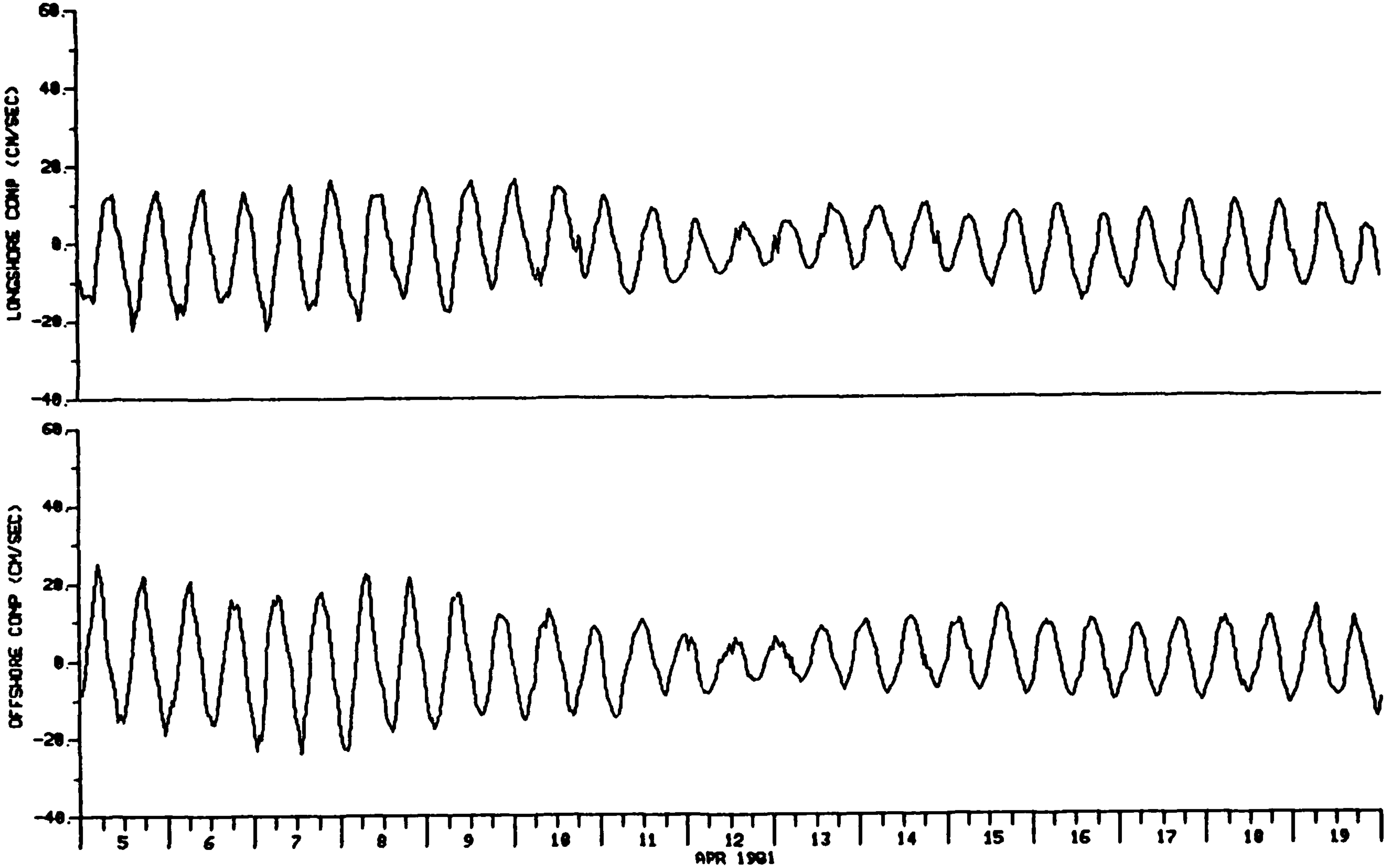
CM31

37 m depth
71° 23.2' N   130° 21.5' W
5 April 1981 to 9 August 1981
Longshore direction is 65° T
Offshore direction is 335° T

Filter is 25 hour low pass
$A_{24}^{2} A_{25}$ (Godin, 1972)

USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CM-3
DEPTH = 43
TAPE = 2468/ 31



USCG BEAUFORT SEA STUDY

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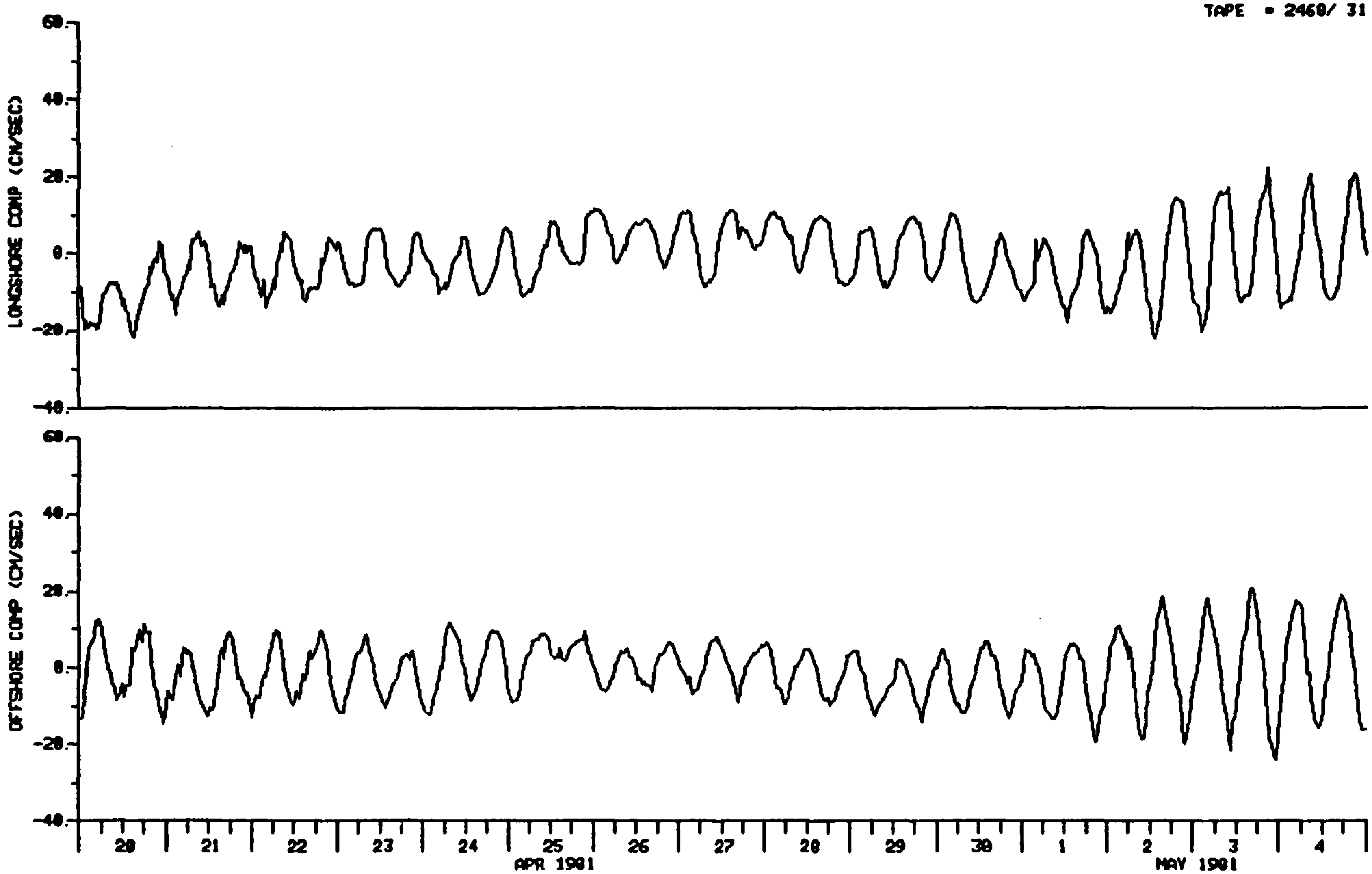
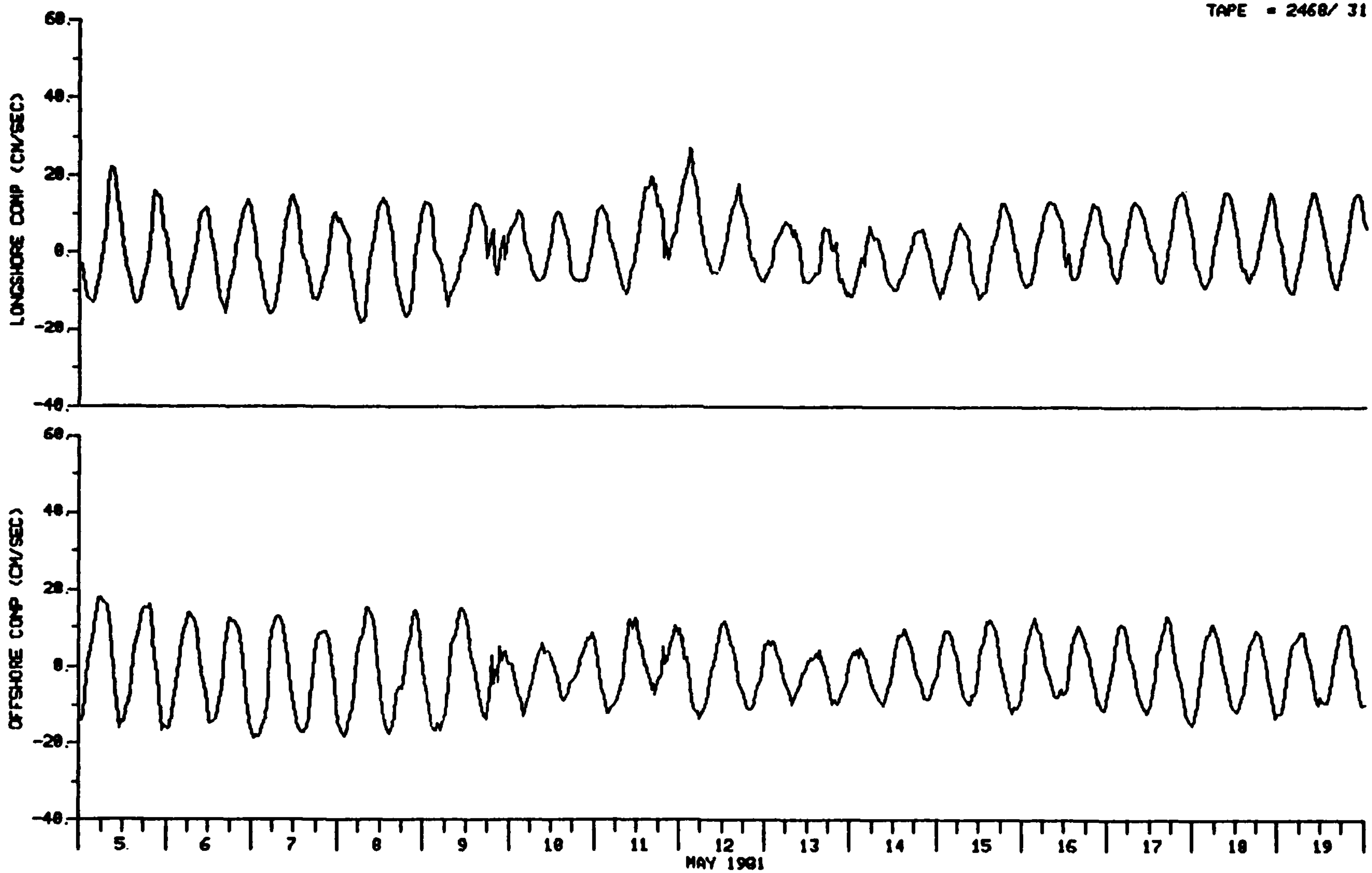
STNID = CM-3
DEPTH = 43
TAPE = 2460/ 31



USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CM-3
DEPTH = 43
TAPE = 2468/ 31



USCG BEAUFORT SEA STUDY

PAGE = 4
STNID = CM-3
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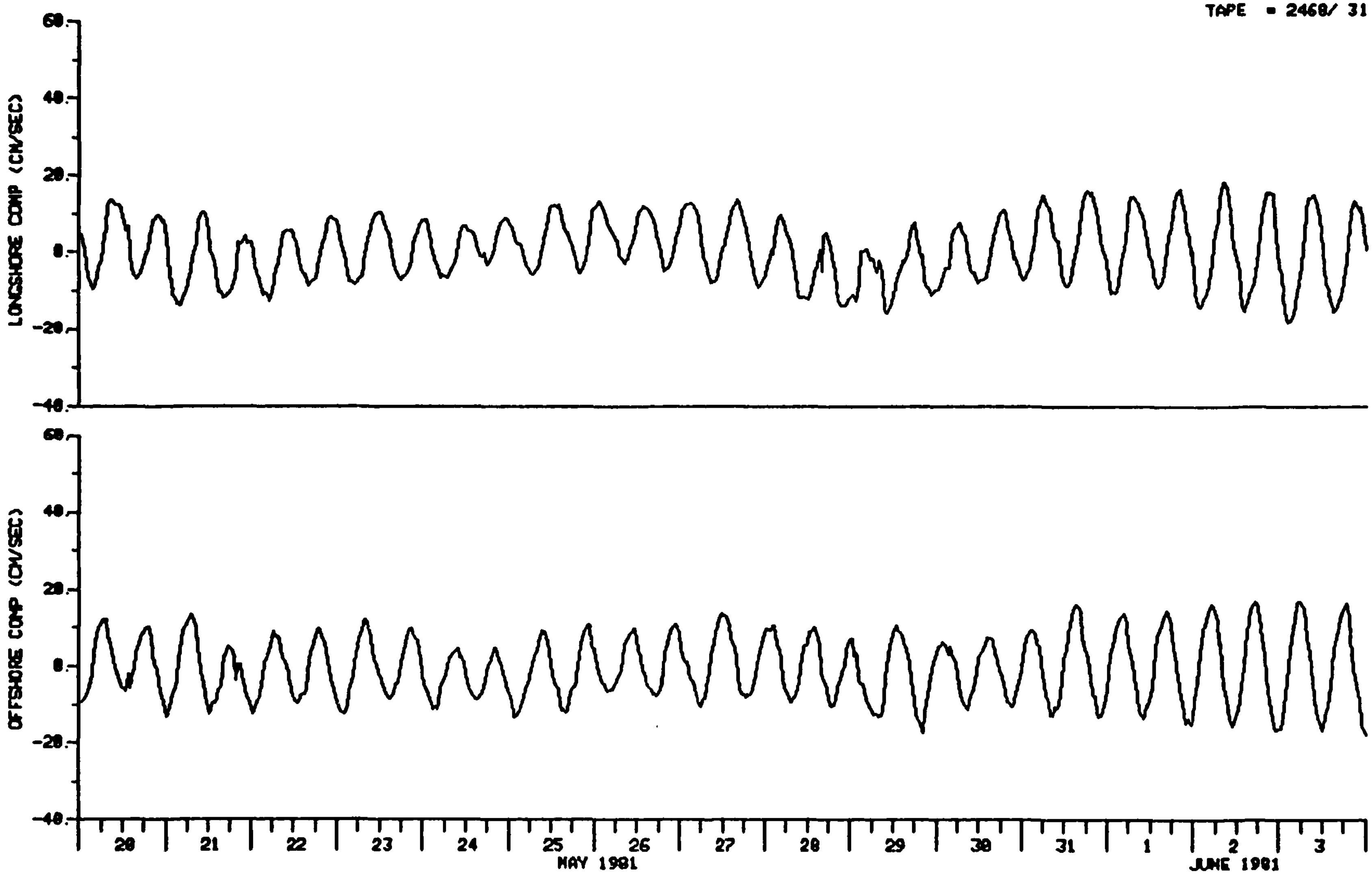
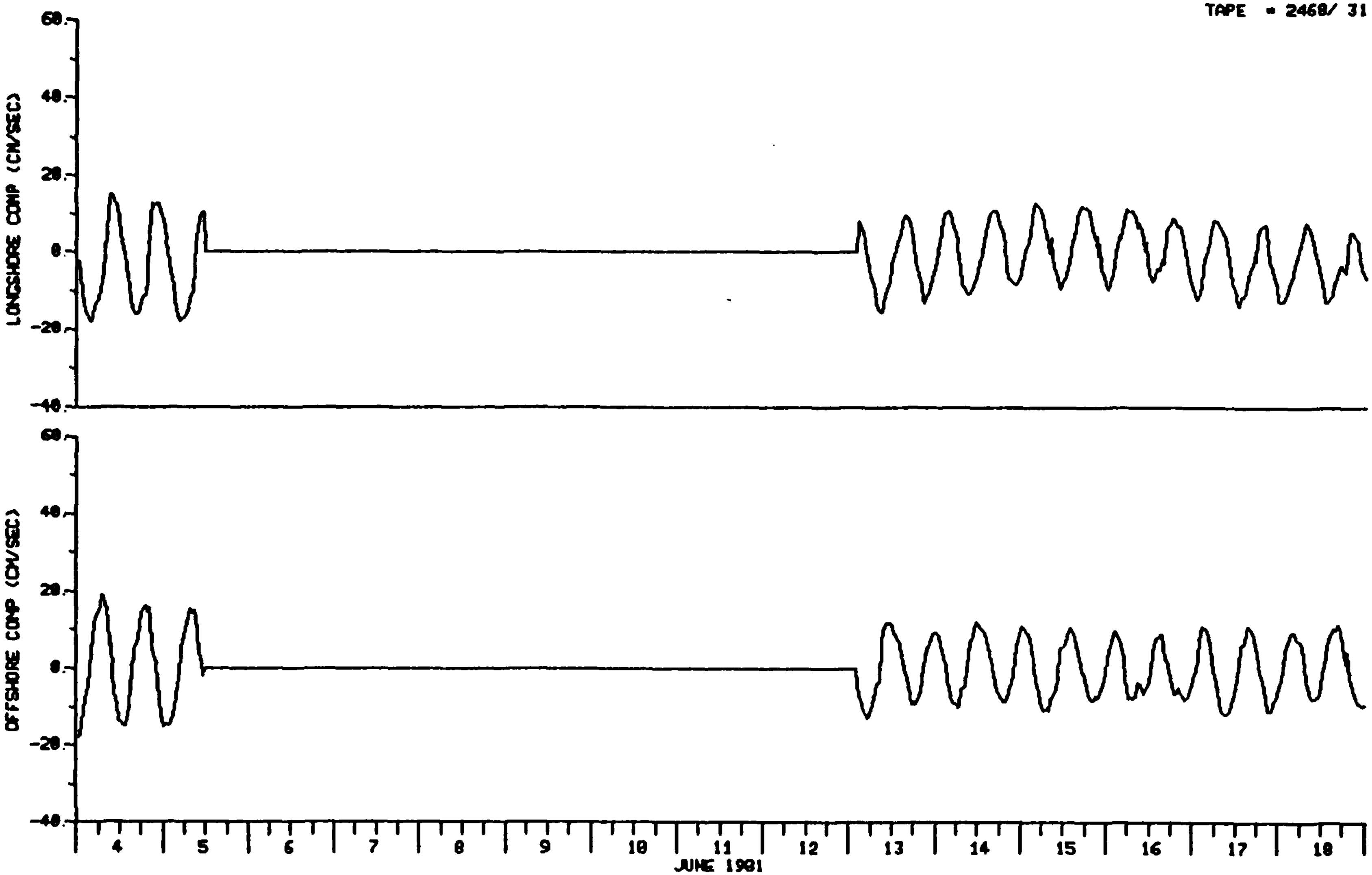


USCG BEAUFORT SEA STUDY

PAGE = 5
STNID = CM-3
DEPTH = 43
TAPE = 2468/ 31



USCG BEAUFORT SEA STUDY

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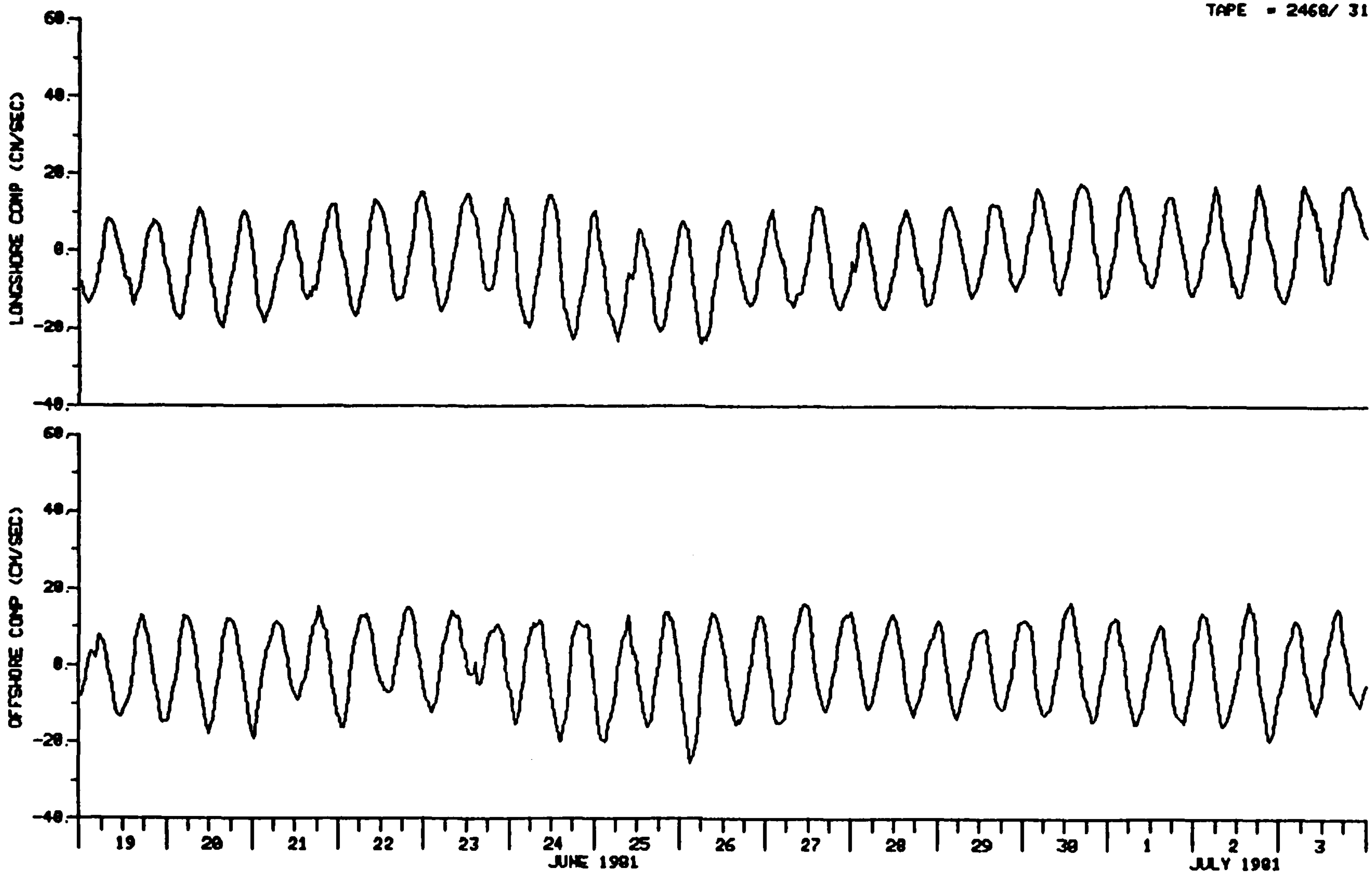

USCG BEAUFORT SEA STUDY

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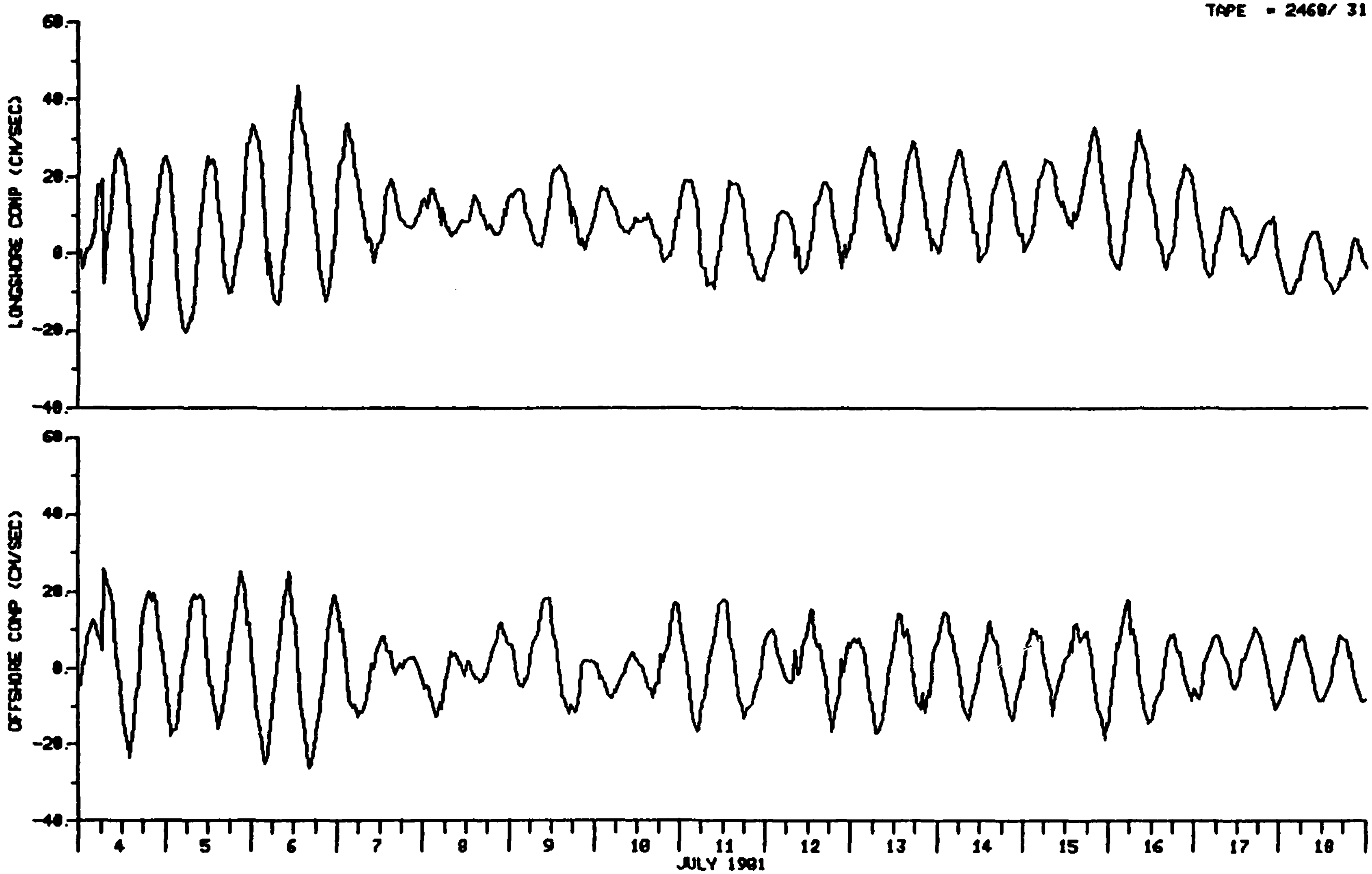

USCG BEAUFORT SEA STUDY

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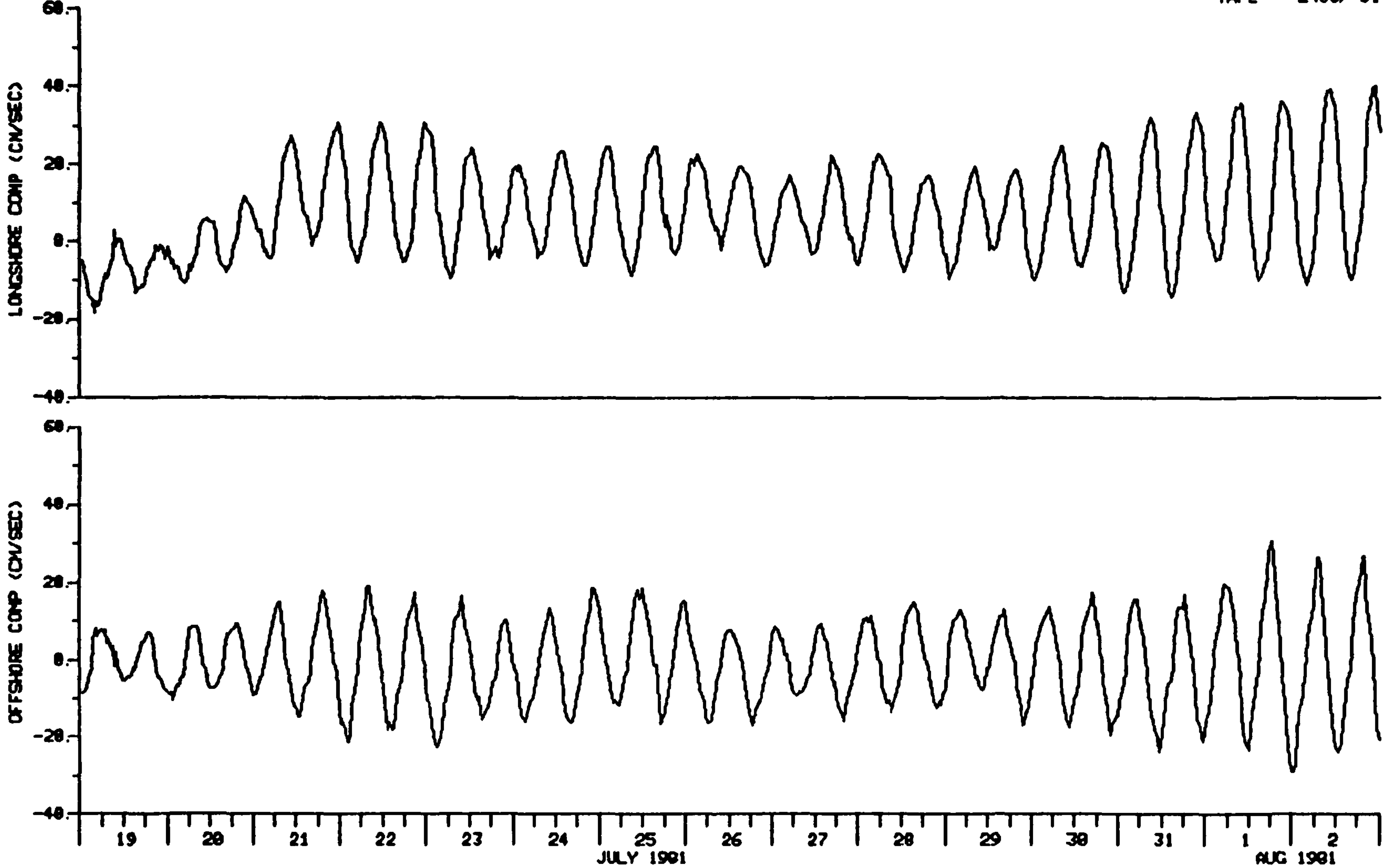

USCG BEAUFORT SEA STUDY

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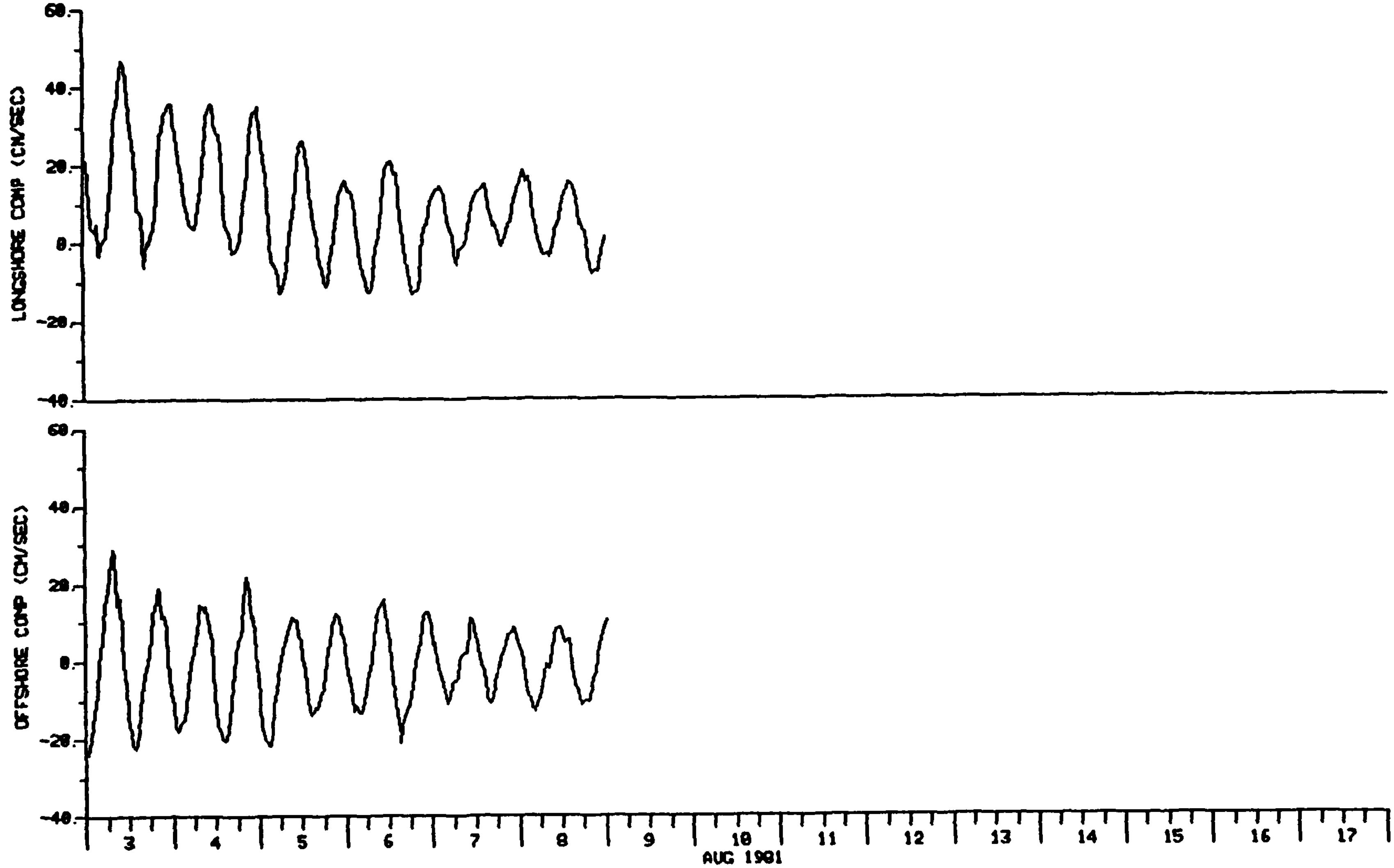

USCG BEAUFORT SEA STUDY

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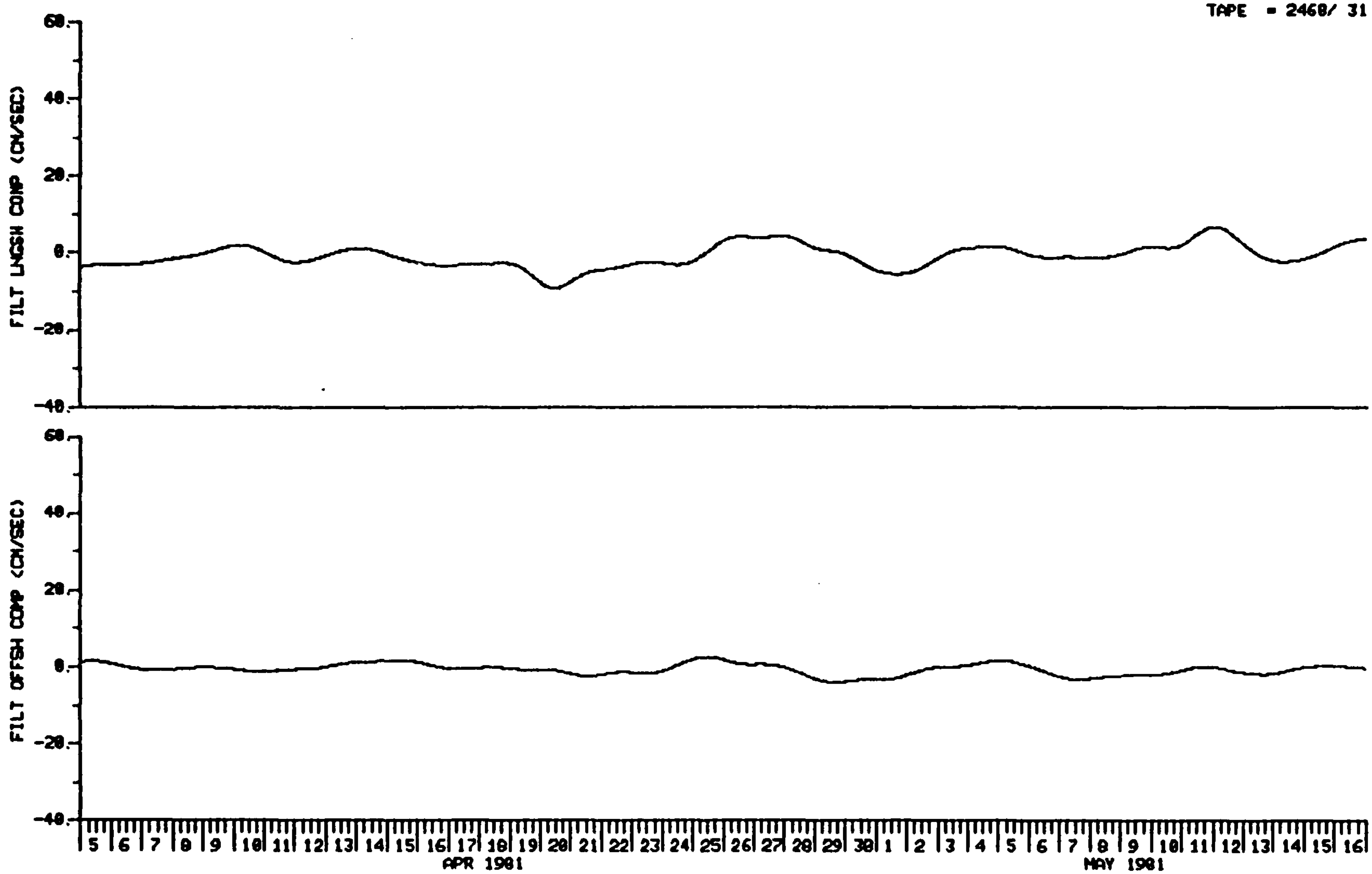
STNID = CM-3
ELEV = 43
TAPE = 2460/ 31



USCG BEAUFORT SEA STUDY

PAGE = 2
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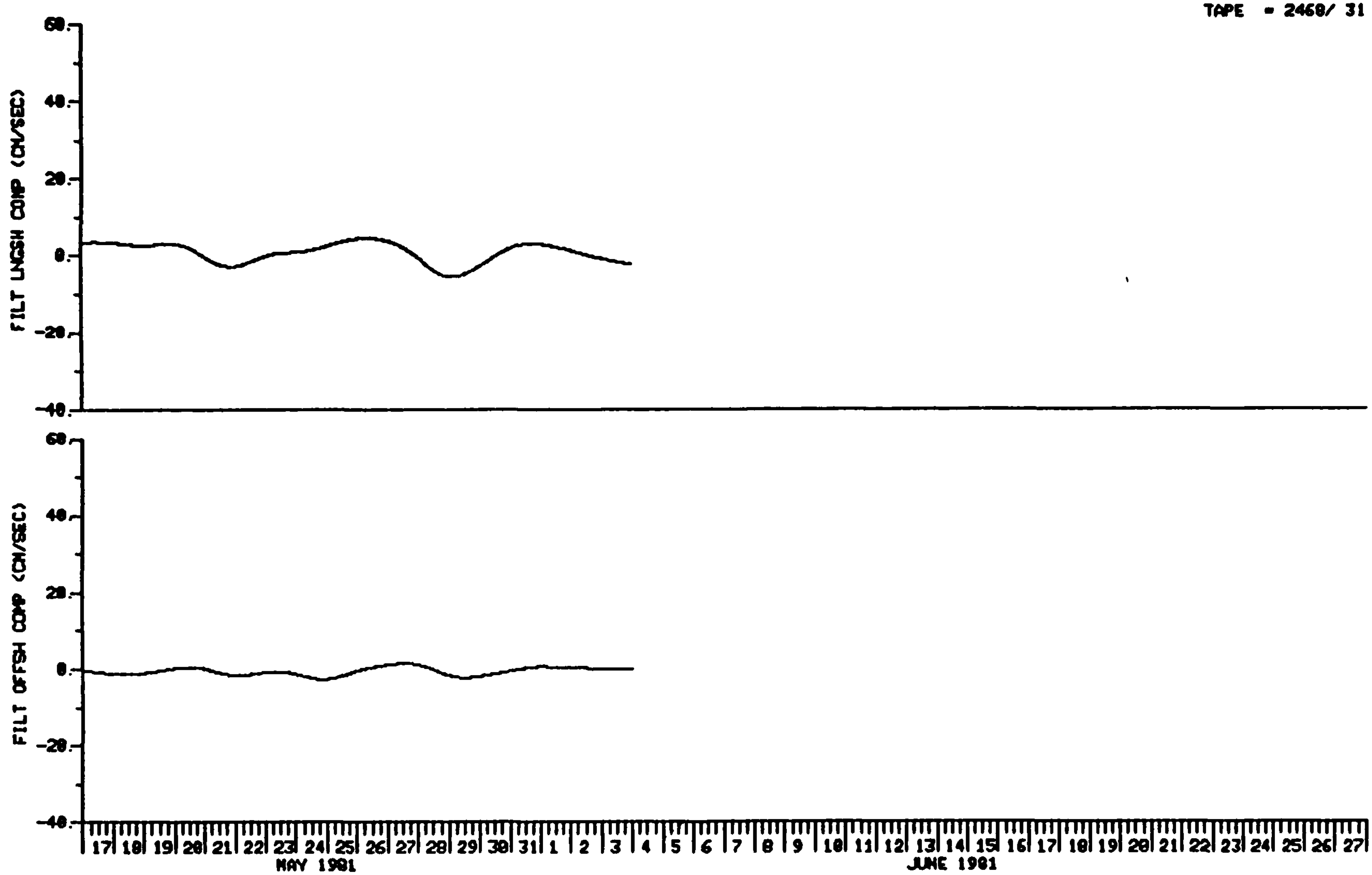

USCG BEAUFORT SEA STUDY

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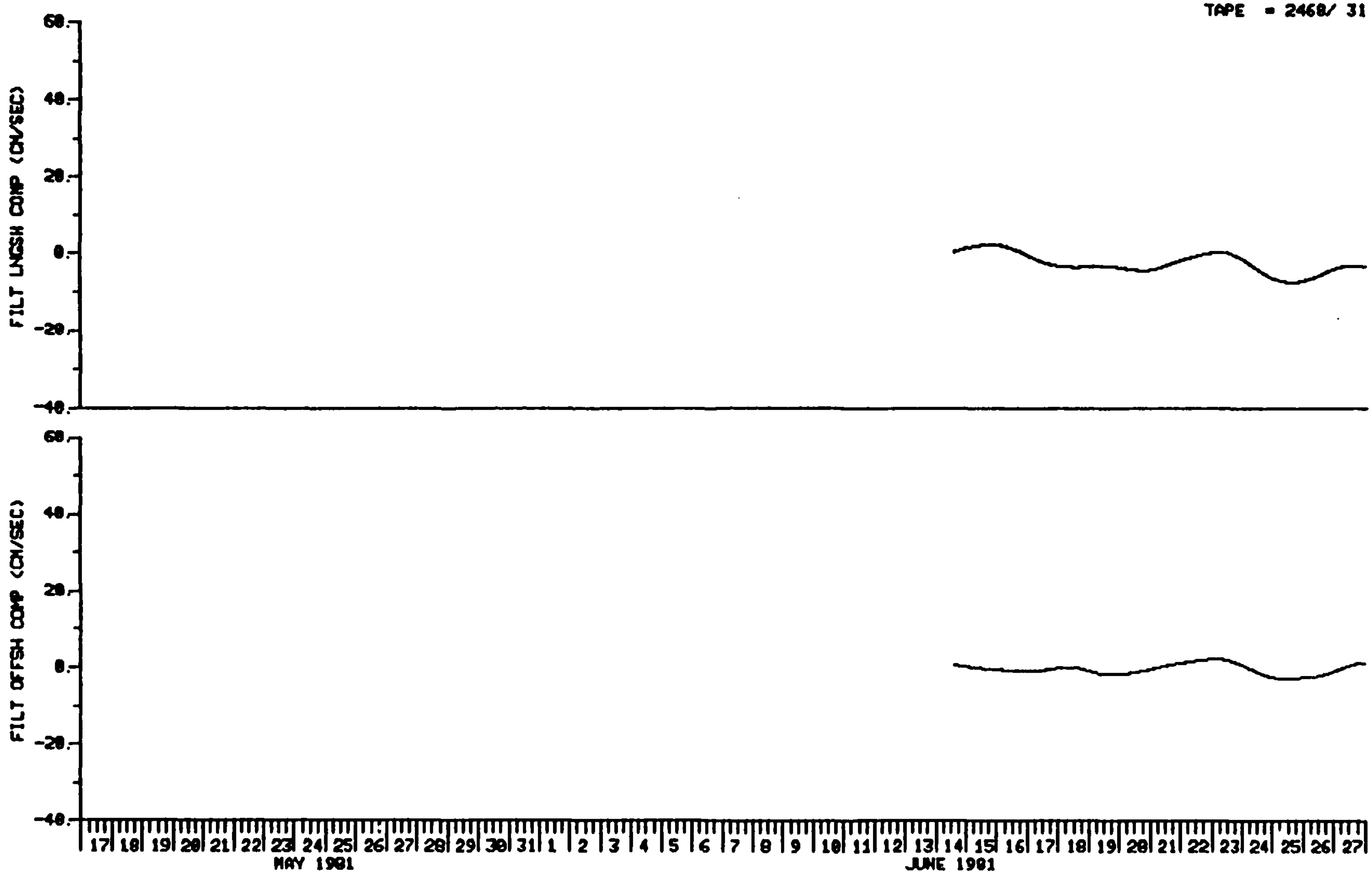

USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CM-3
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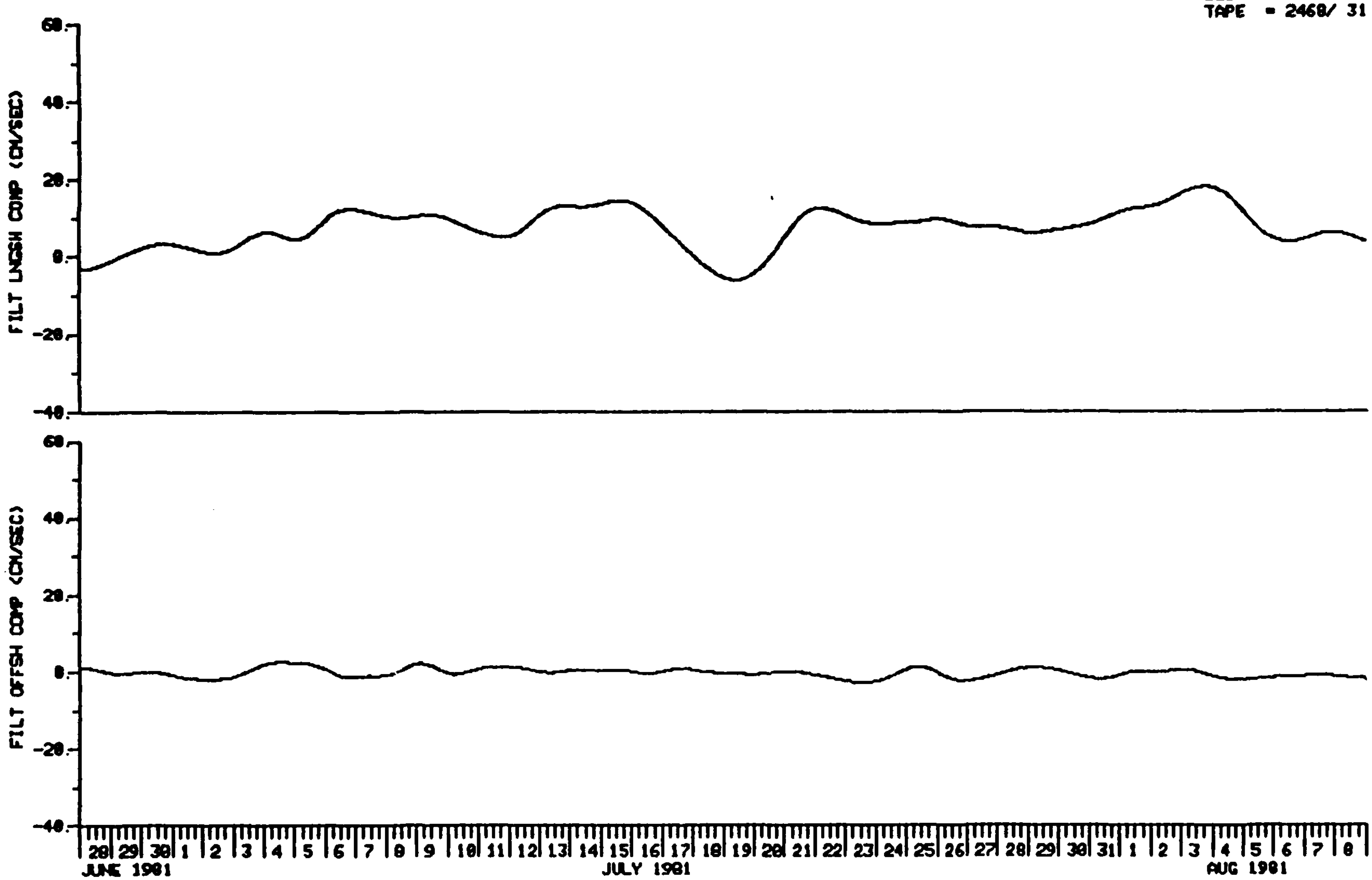


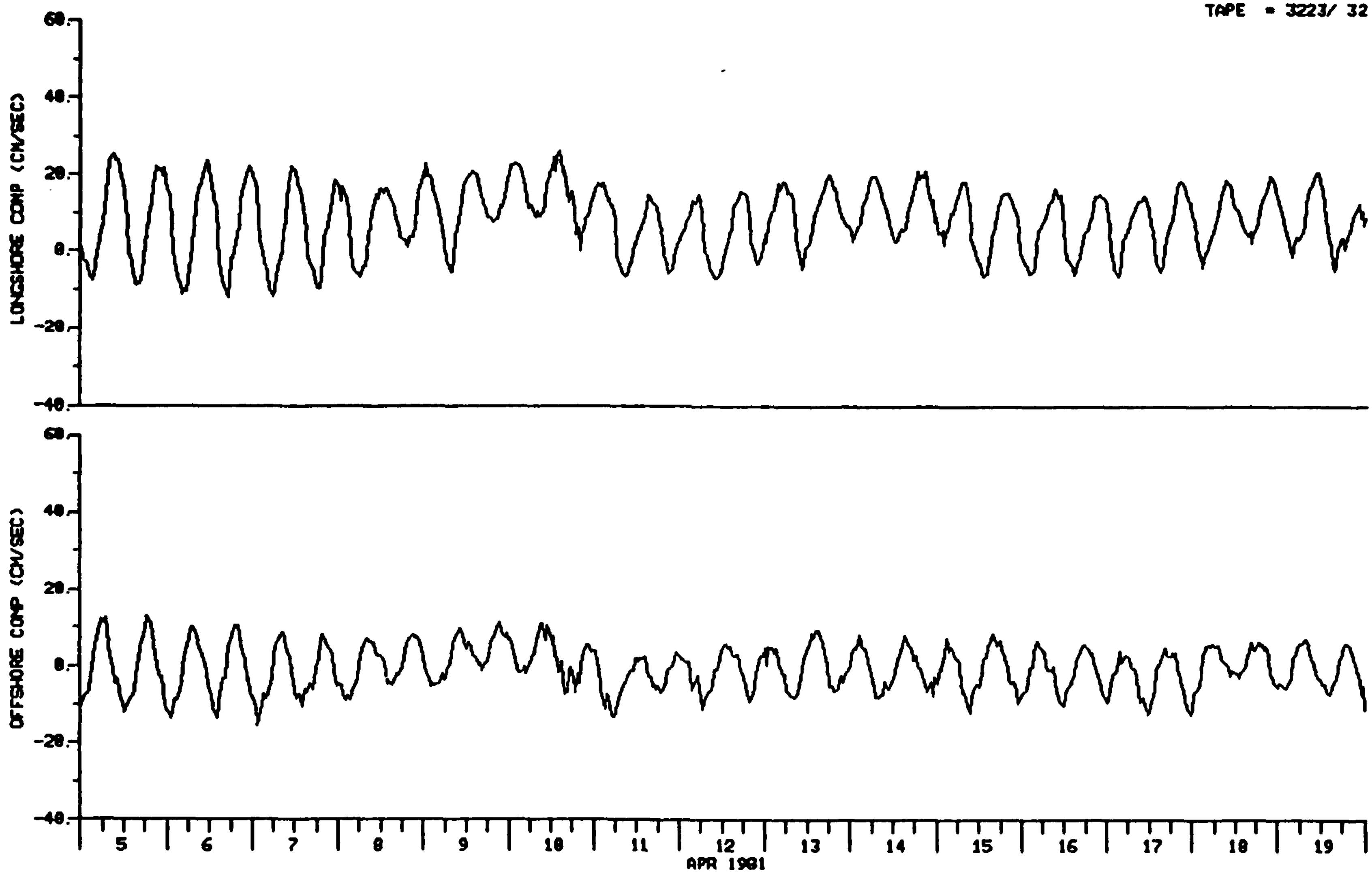
CM32

57 m depth
71° 23.2' N   130° 21.5' W
5 April 1981 to 9 August 1981
Longshore direction is 65° T
Offshore direction is 335° T

Filter is 25 hour low pass
$A_{24}^{2} A_{25}$ (Godin, 1972)

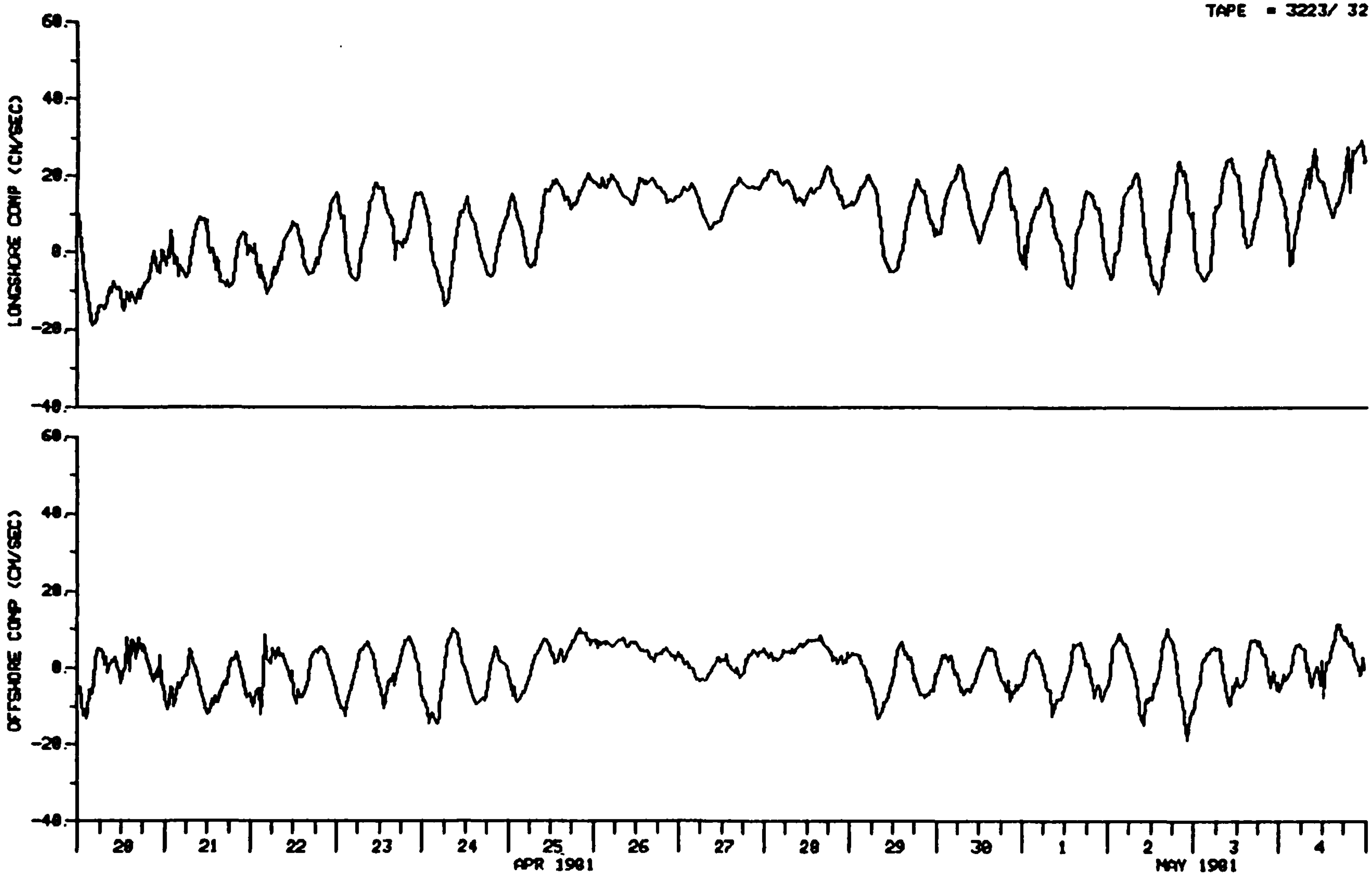
USCG BEAUFORT SEA STUDY

PAGE = 1
STNID = CM-3
DEPTH = 100
TAPE = 3223/ 32



USCG BEAUFORT SEA STUDY

PAGE = 2
STNID = CM-3
DEPTH = 100
TAPE = 3223/ 32



USCG BEAUFORT SEA STUDY

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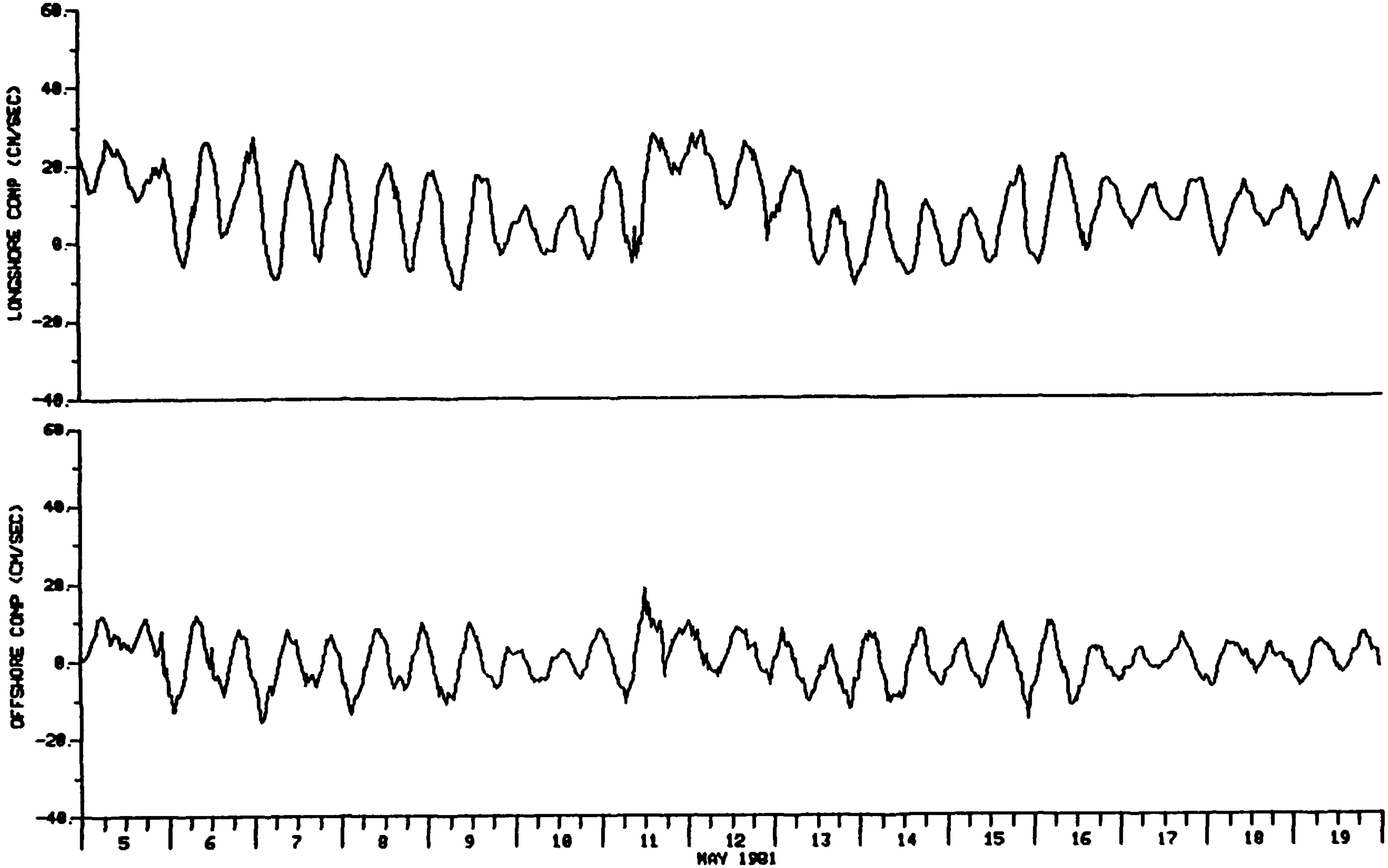
STNID = CM-3
DEPTH = 100
TAPE = 3223/ 32



USCG BEAUFORT SEA STUDY

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STNID = CM-3
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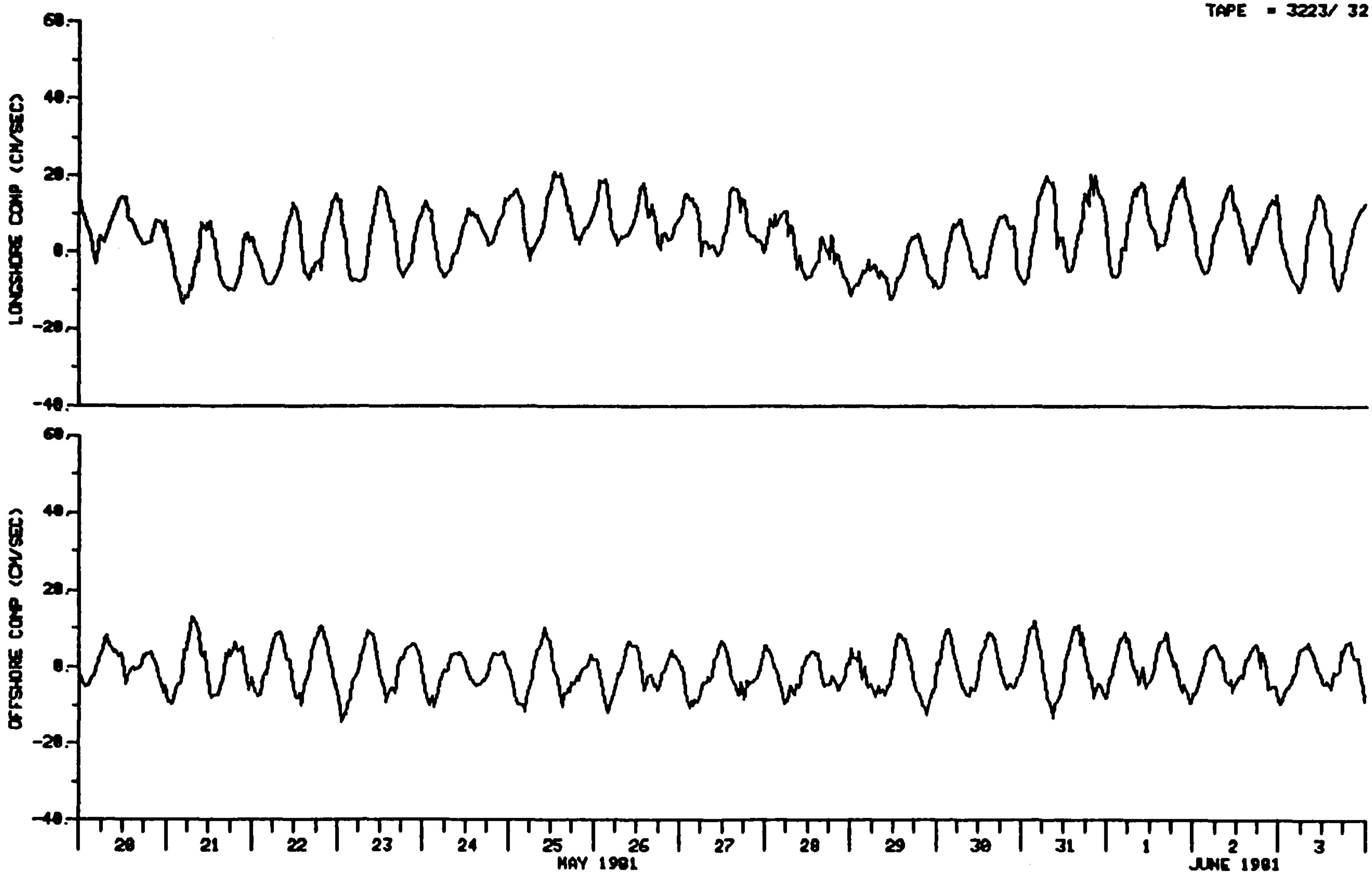

USCG BEAUFORT SEA STUDY

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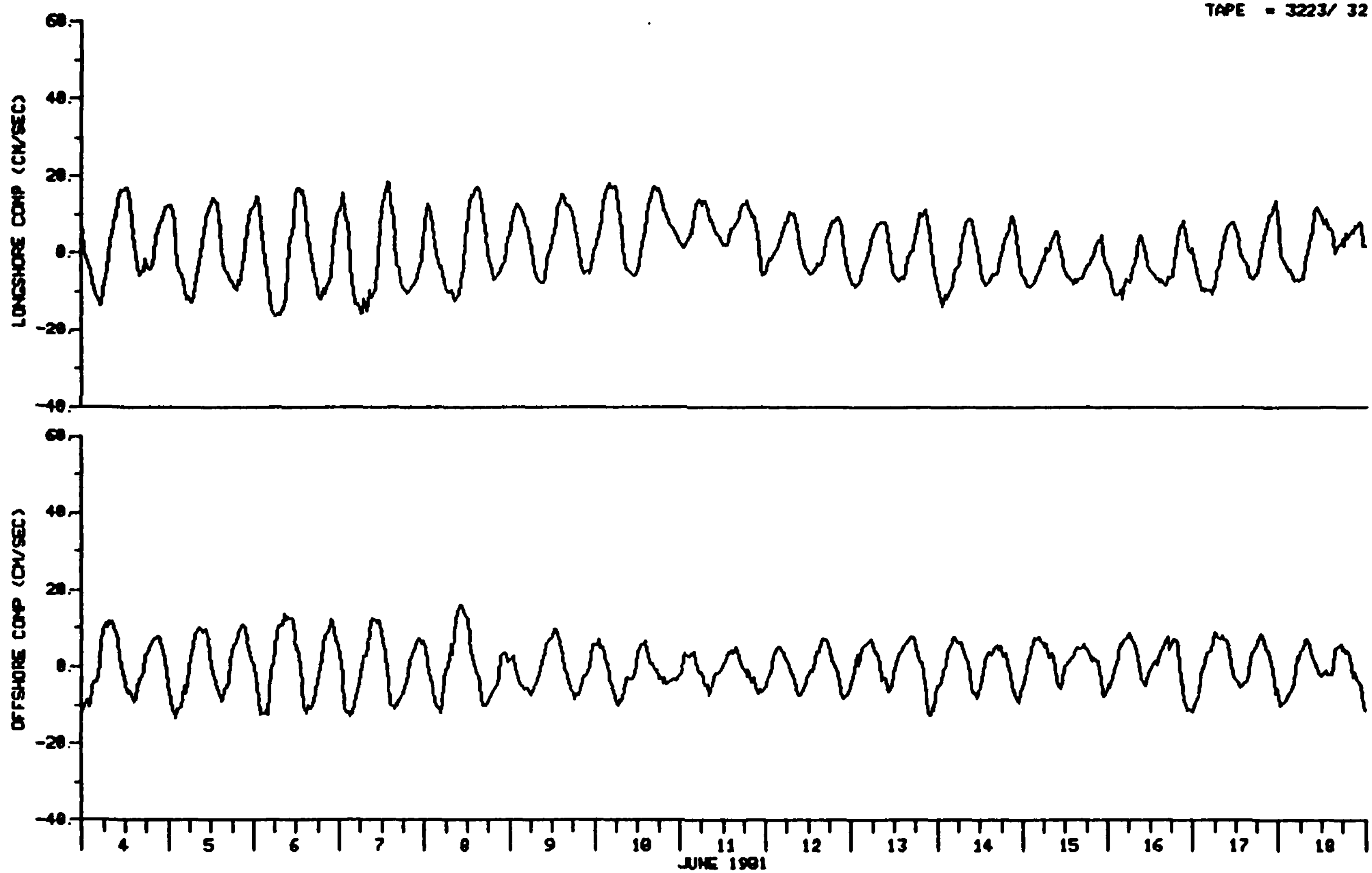

USCG BEAUFORT SEA STUDY

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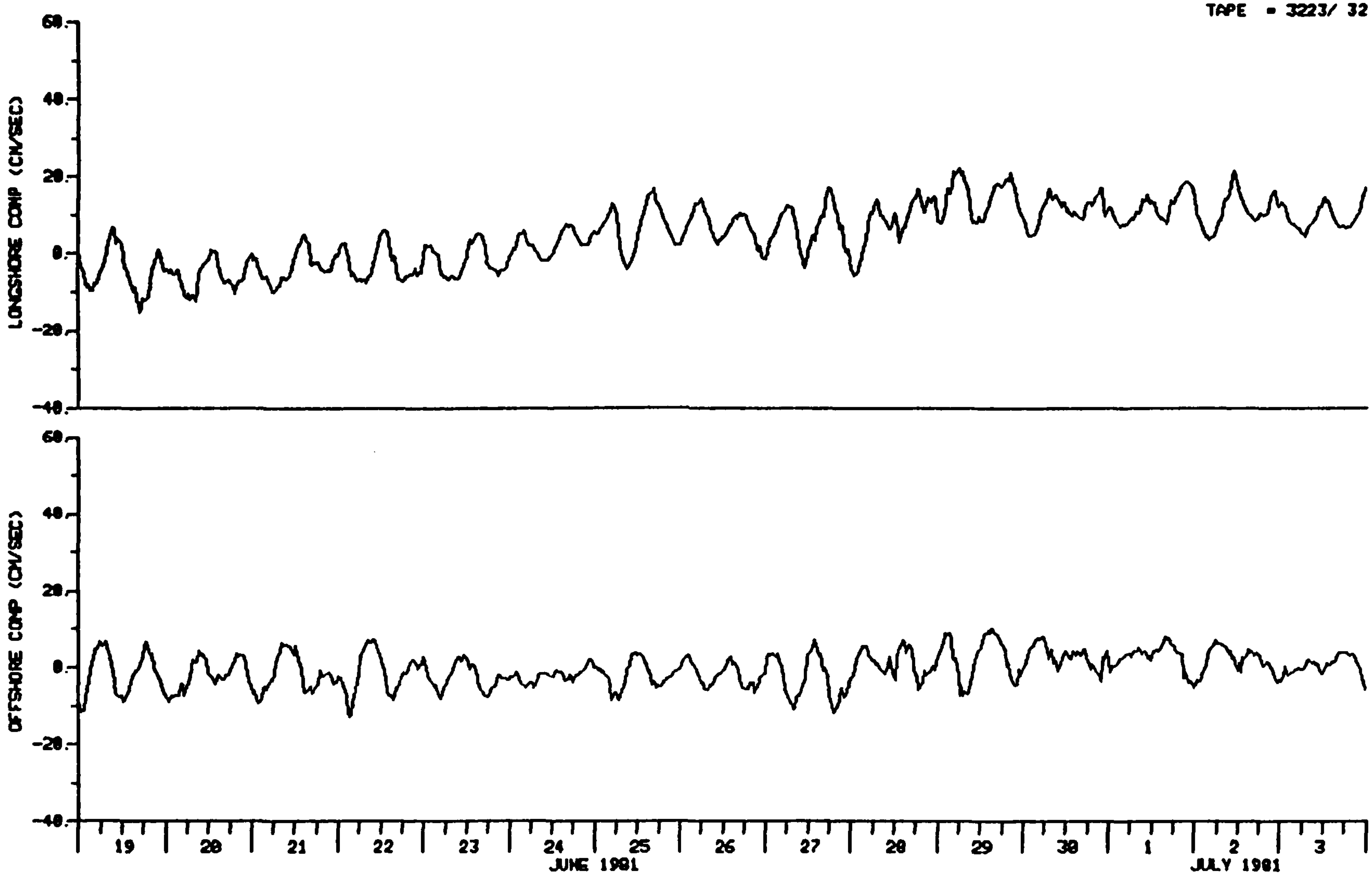

USCG BEAUFORT SEA STUDY

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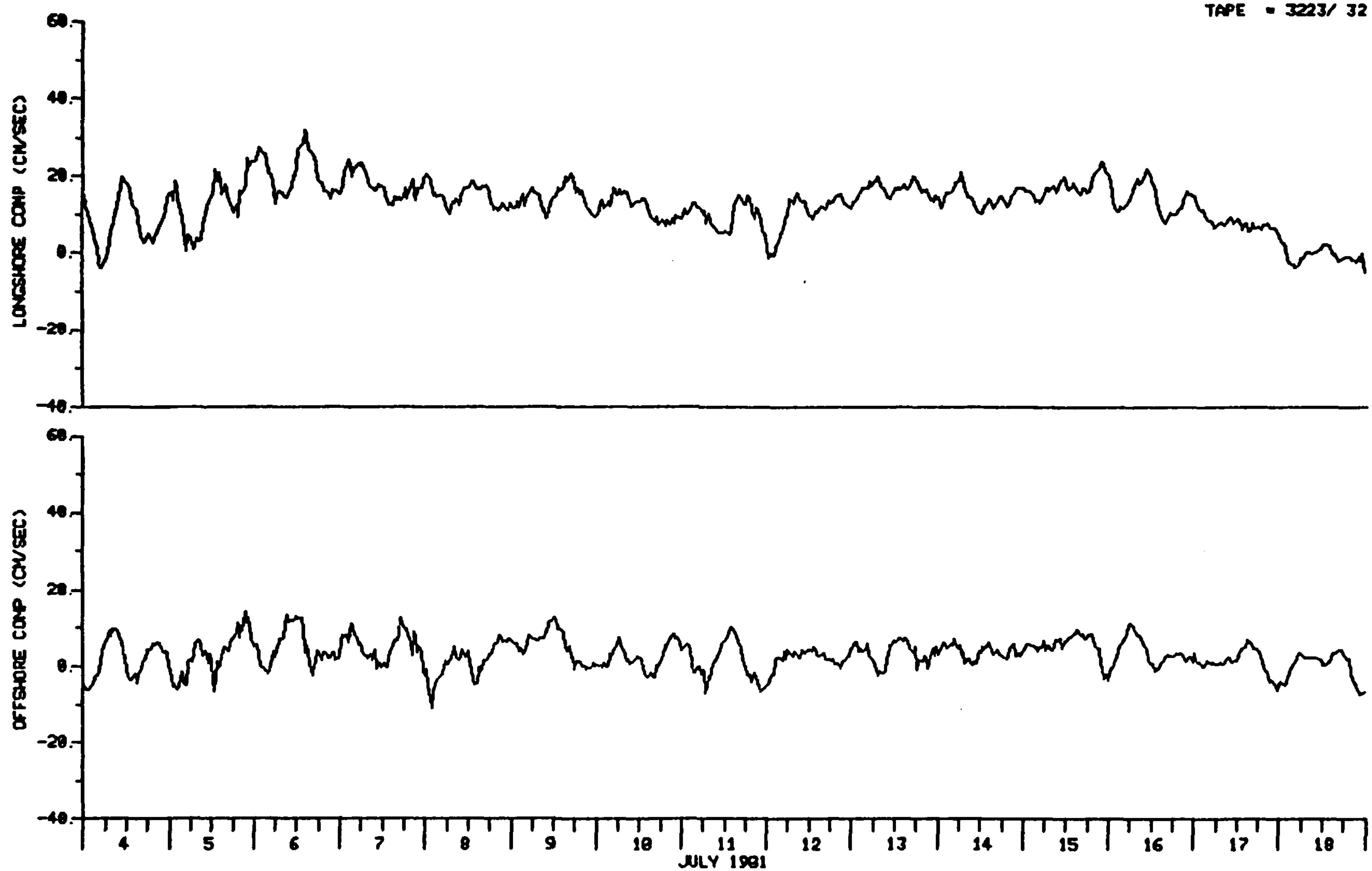

USCG BEAUFORT SEA STUDY

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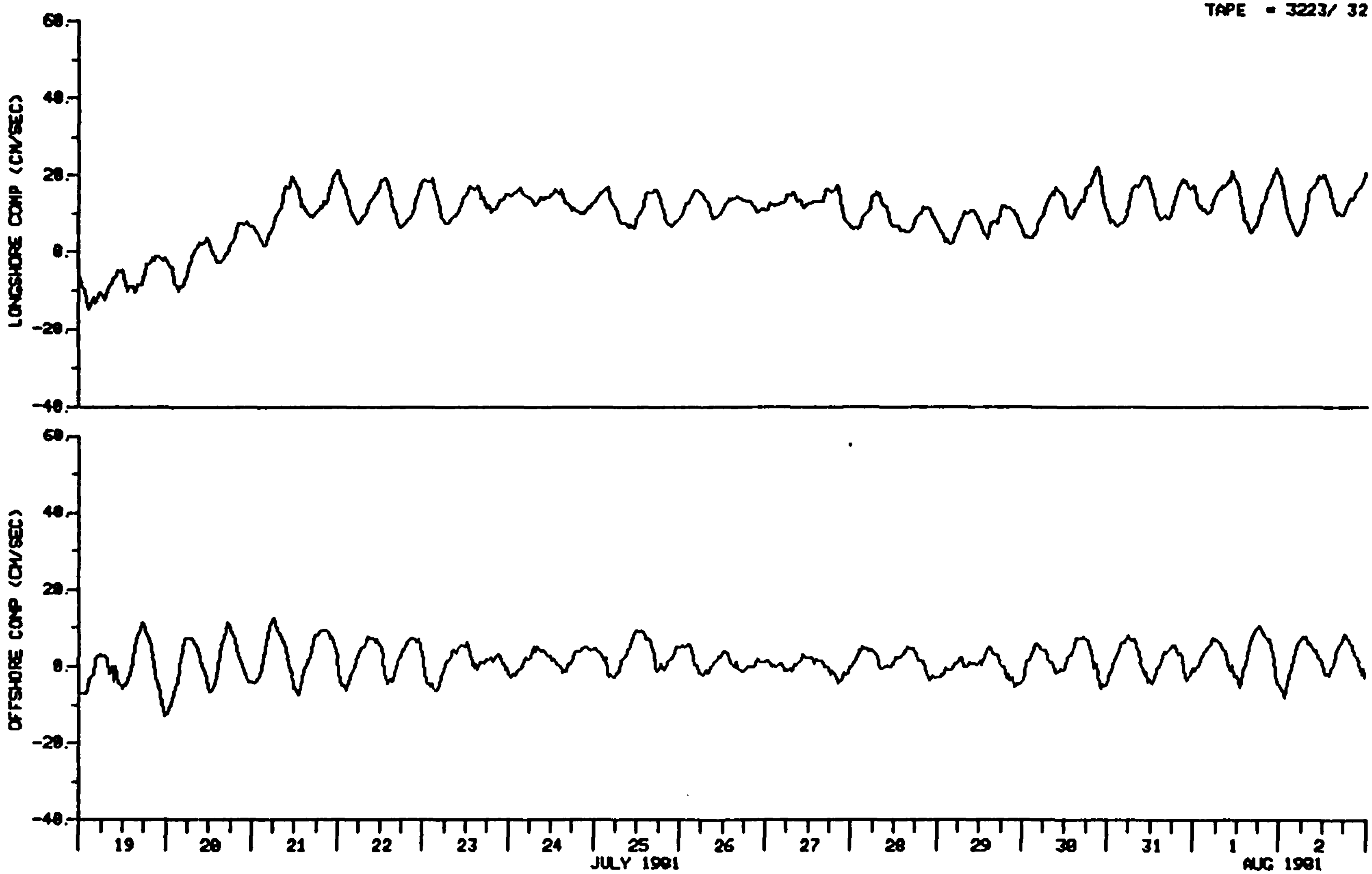

USCG BEAUFORT SEA STUDY

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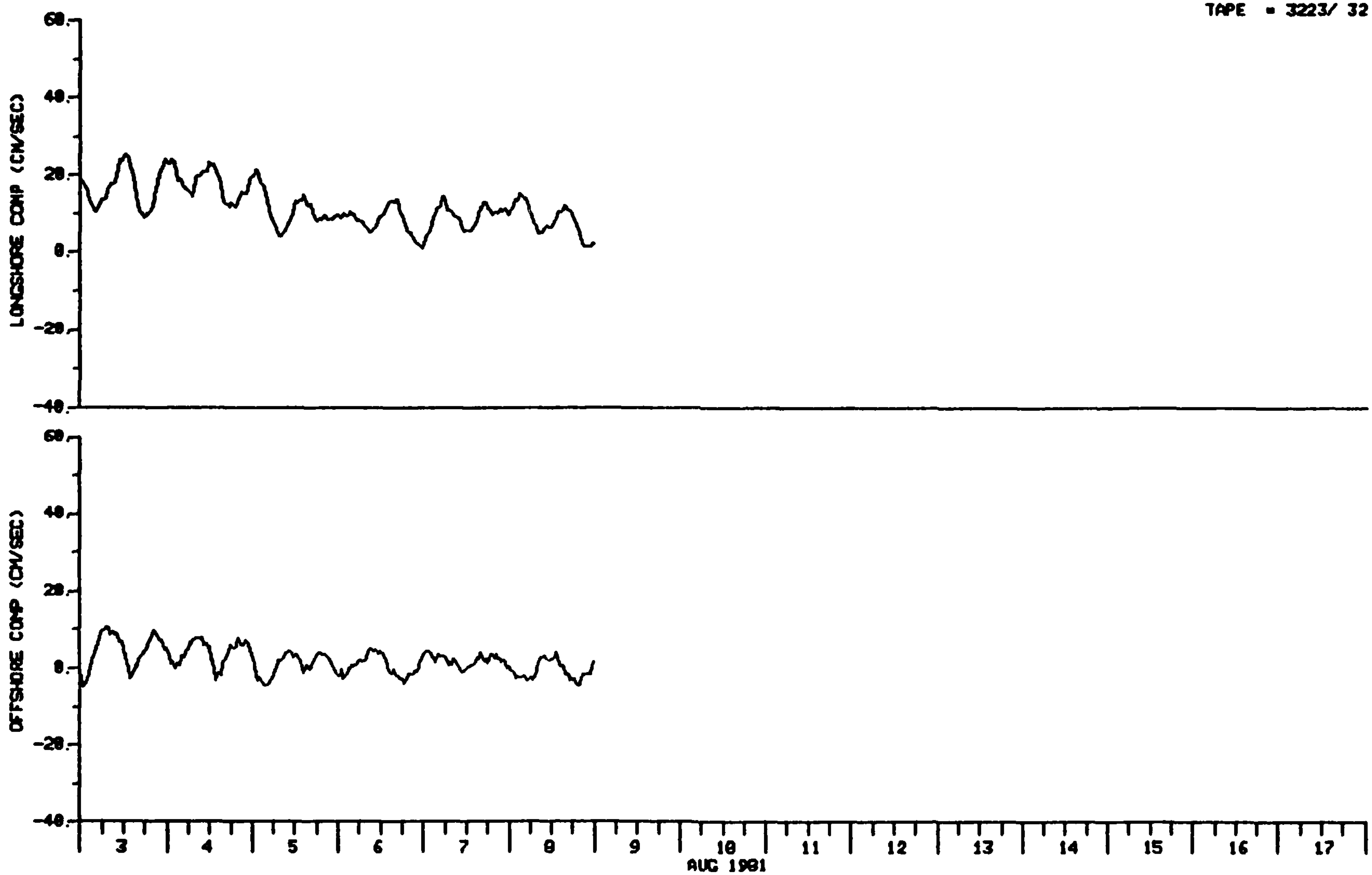

USCG BEAUFORT SEA STUDY

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STNID = CM-3
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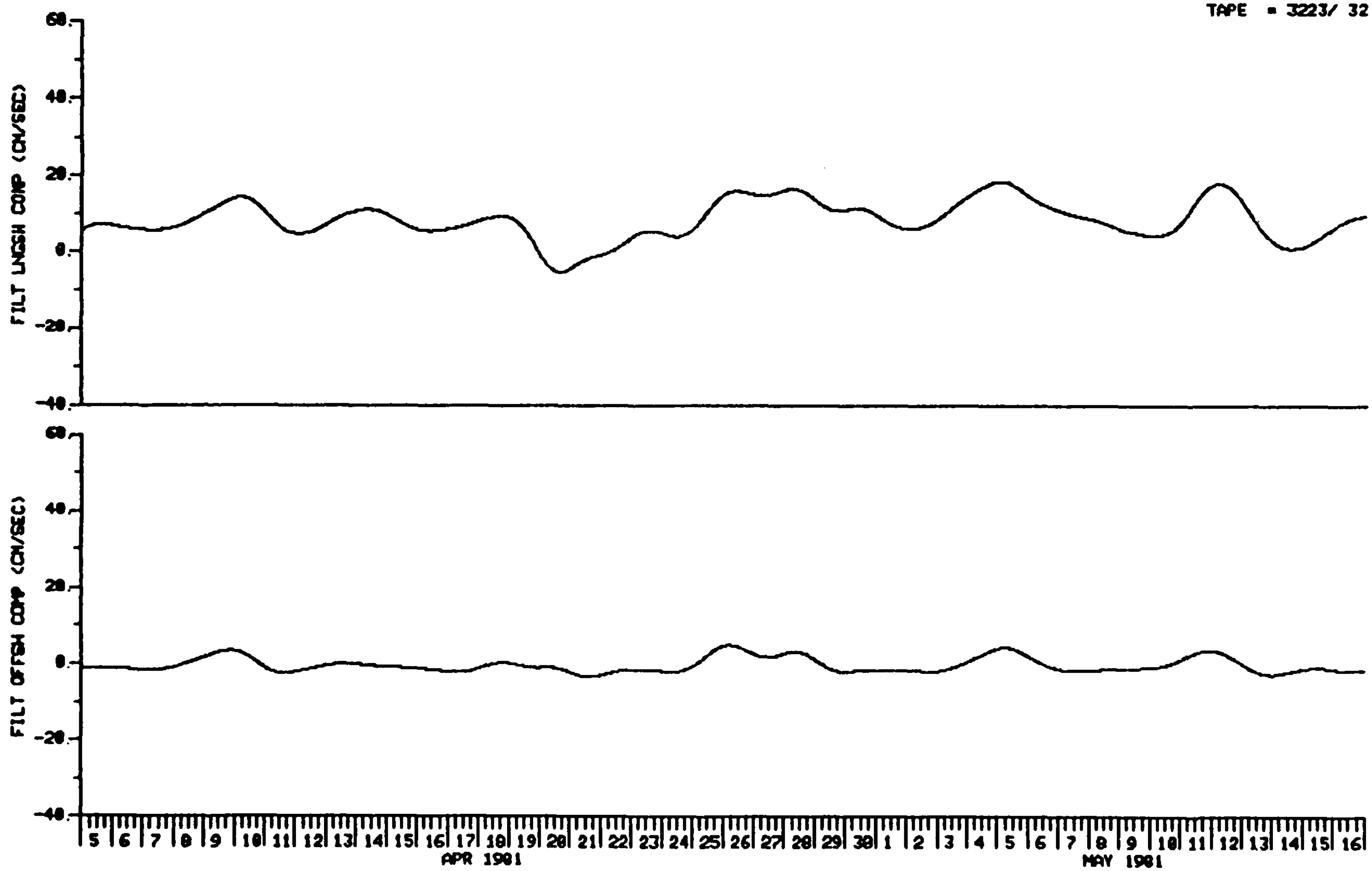
TAPE = 3223/ 32



USCG BEAUFORT SEA STUDY

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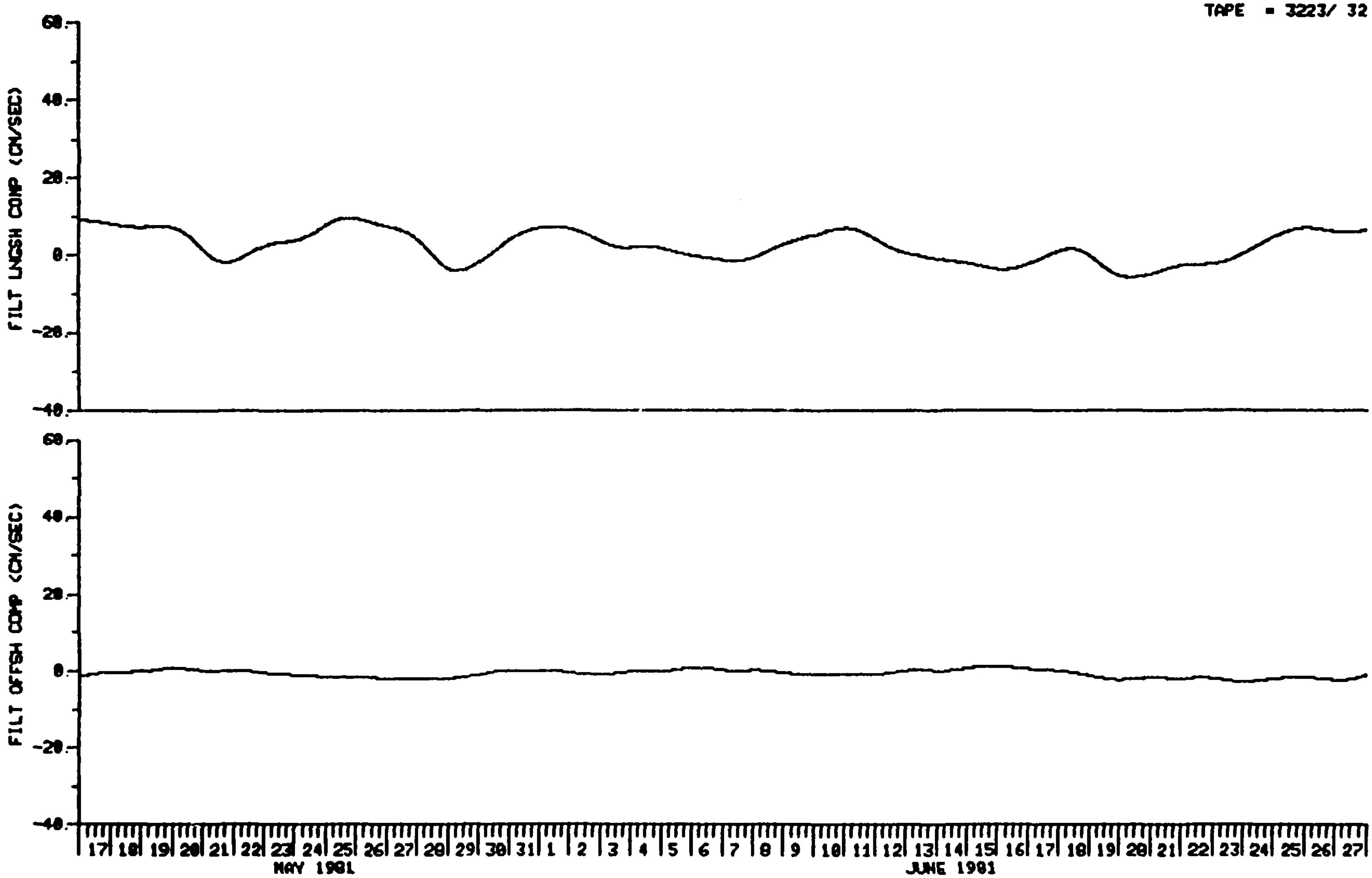

USCG BEAUFORT SEA STUDY

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STNID = CM-3
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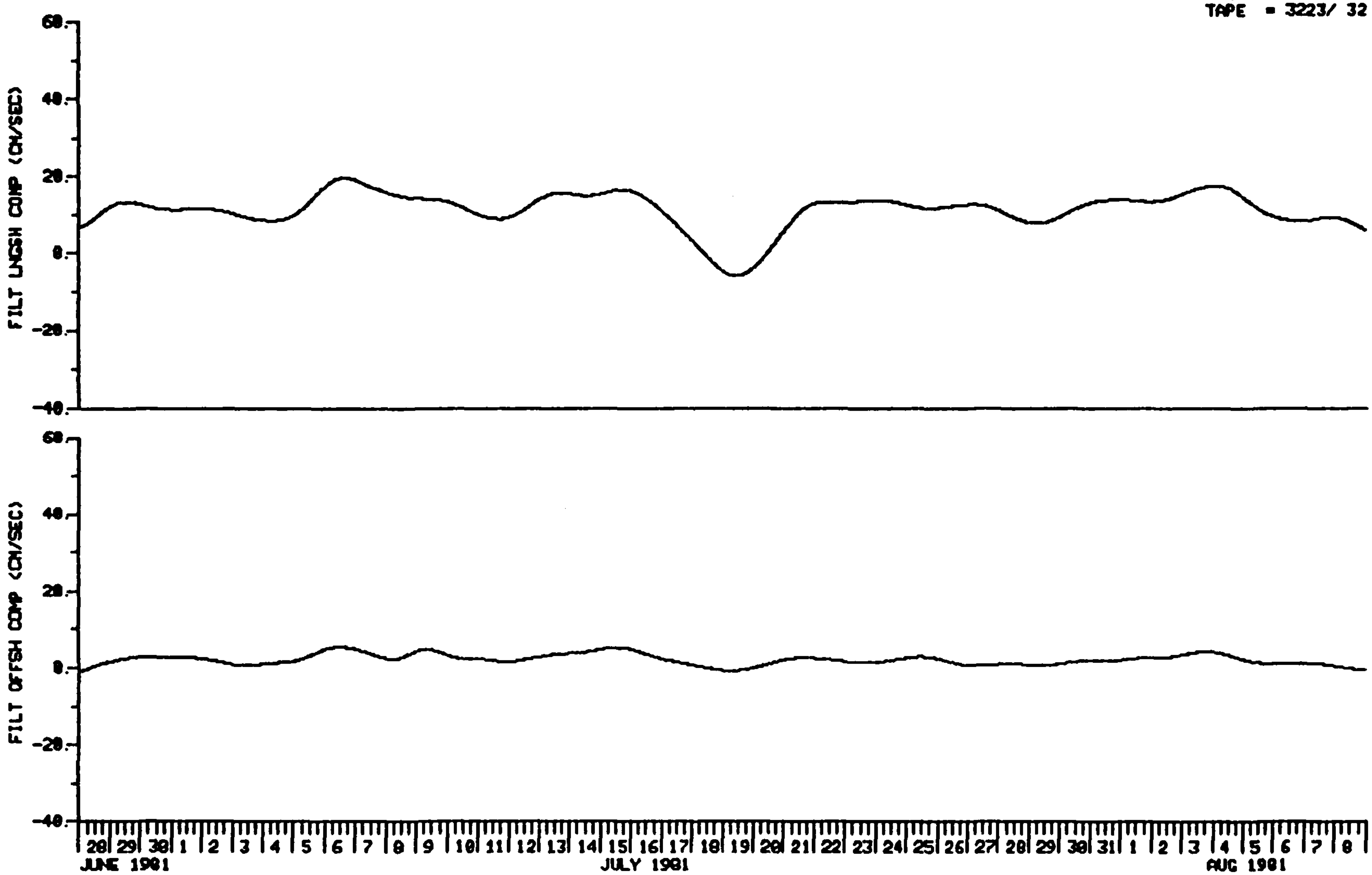
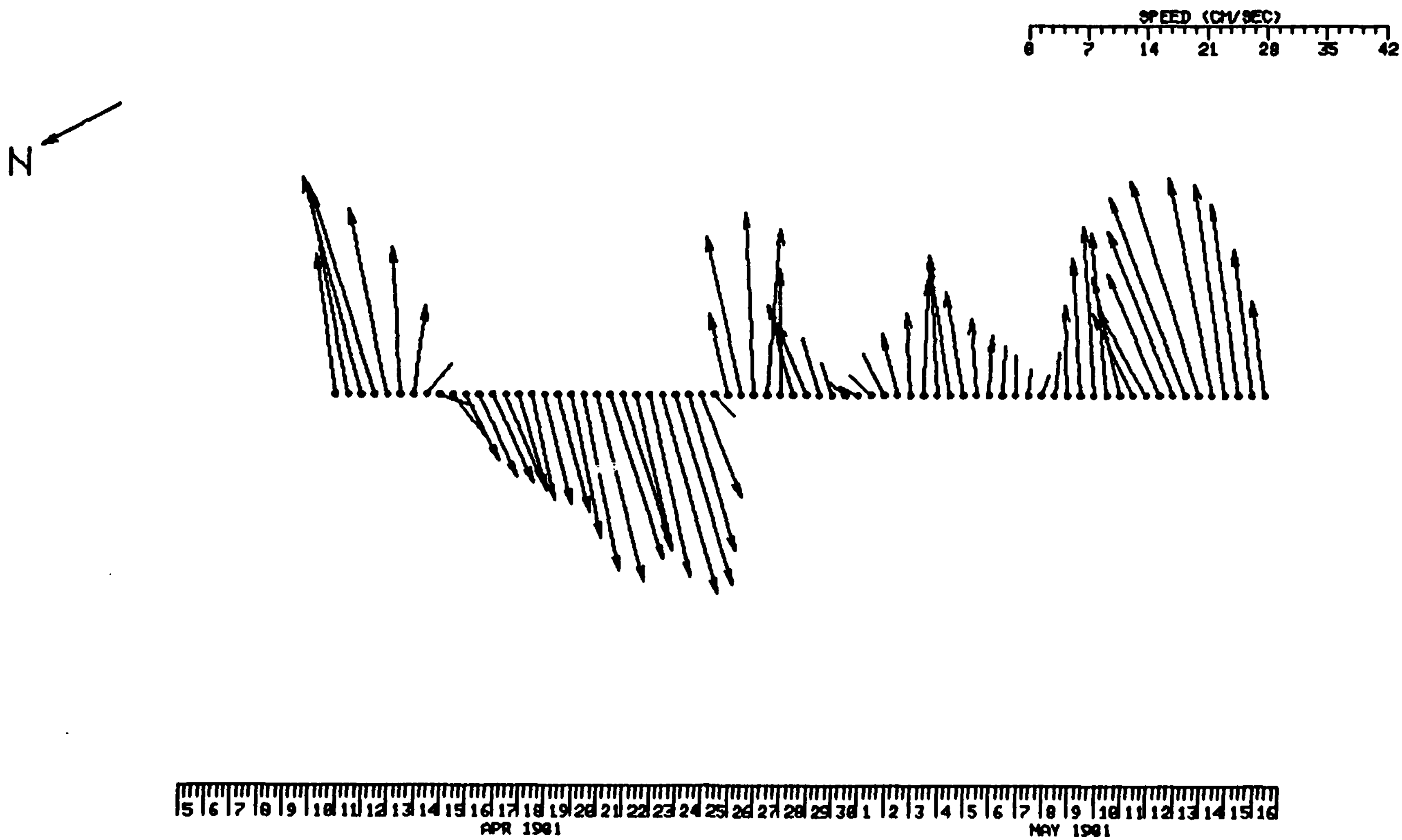


DATA APPENDIX 3

Stick Plots of Coast Guard Current Meter Records
(25 hour Low Pass Filtered)

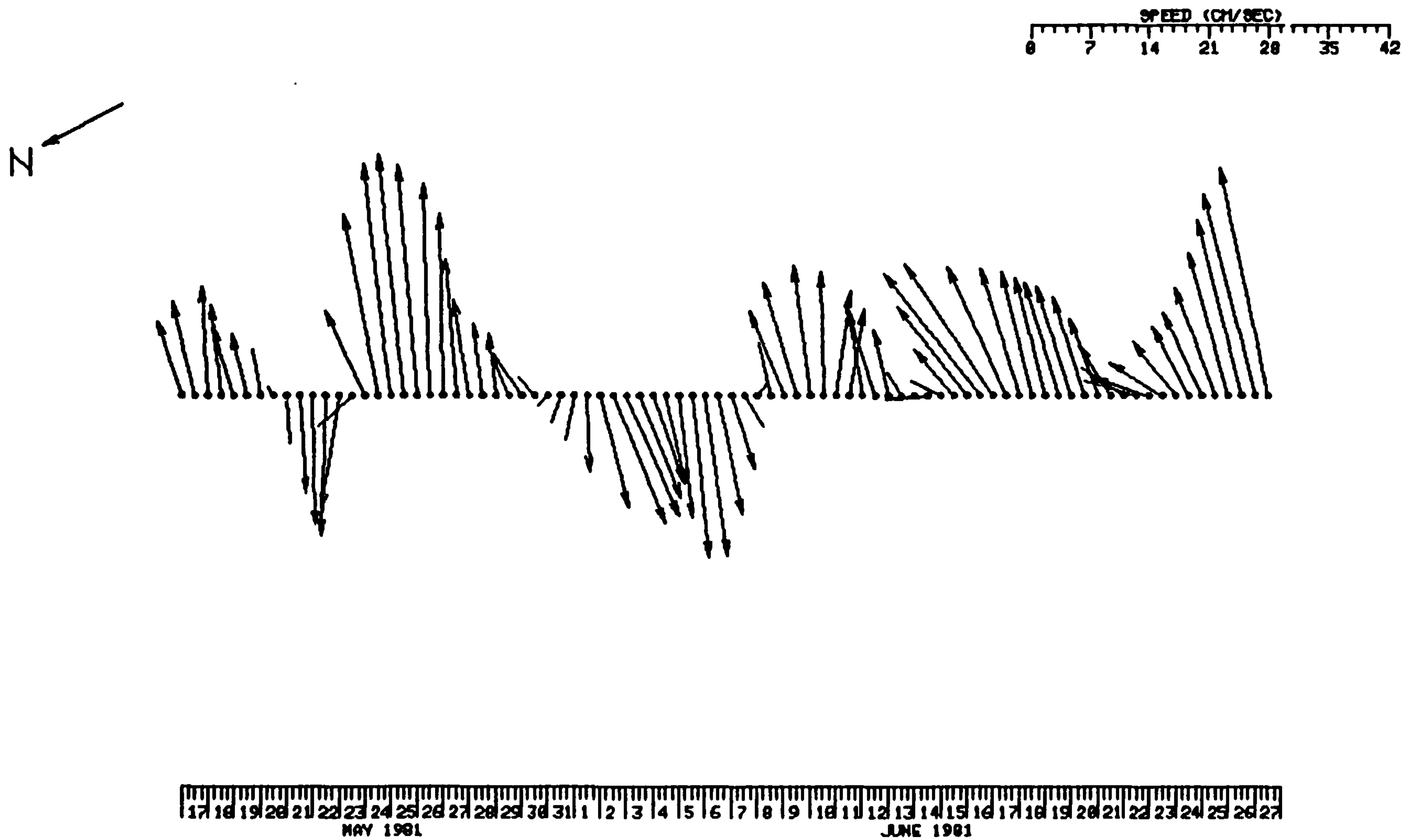
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-12



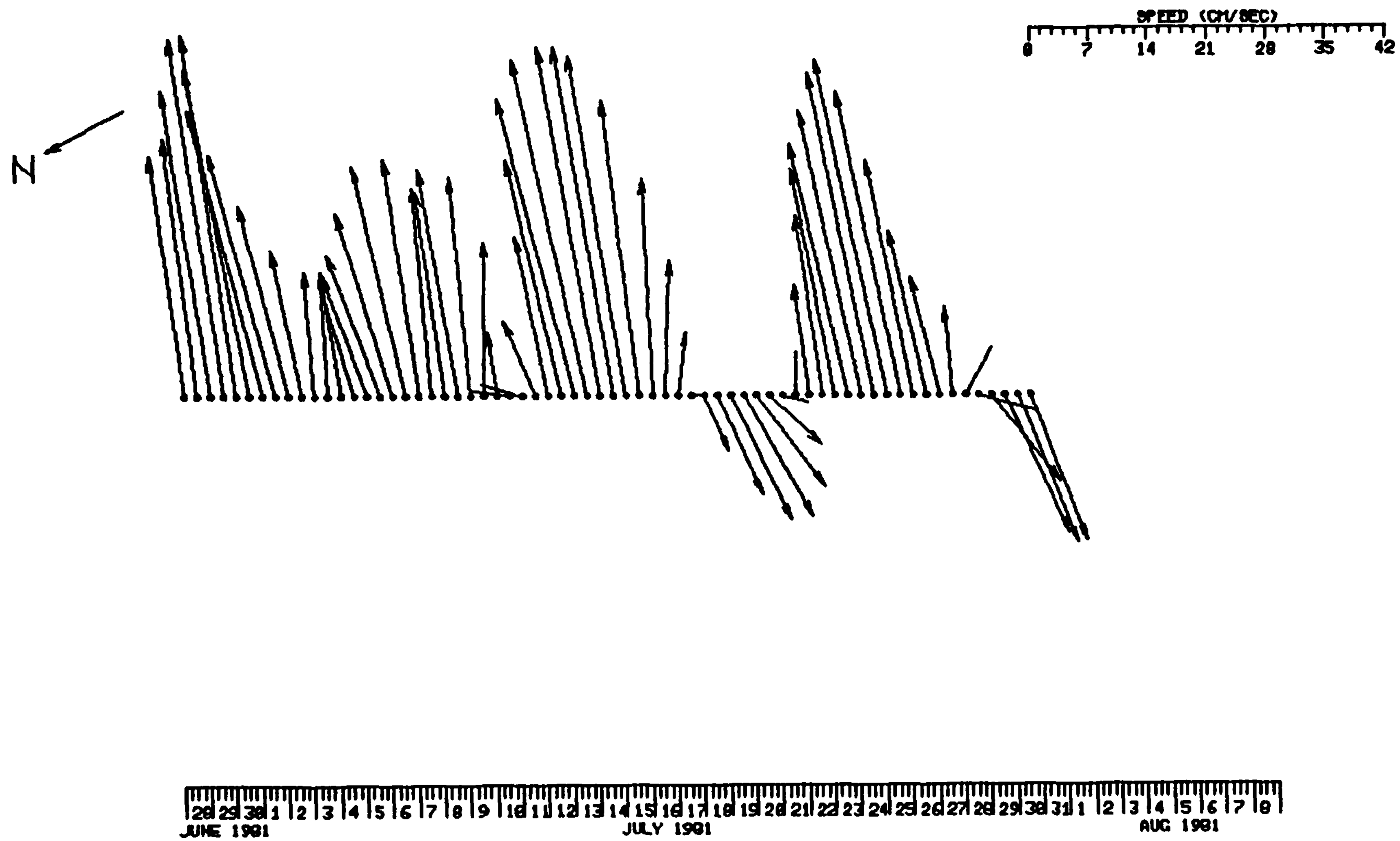
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-12



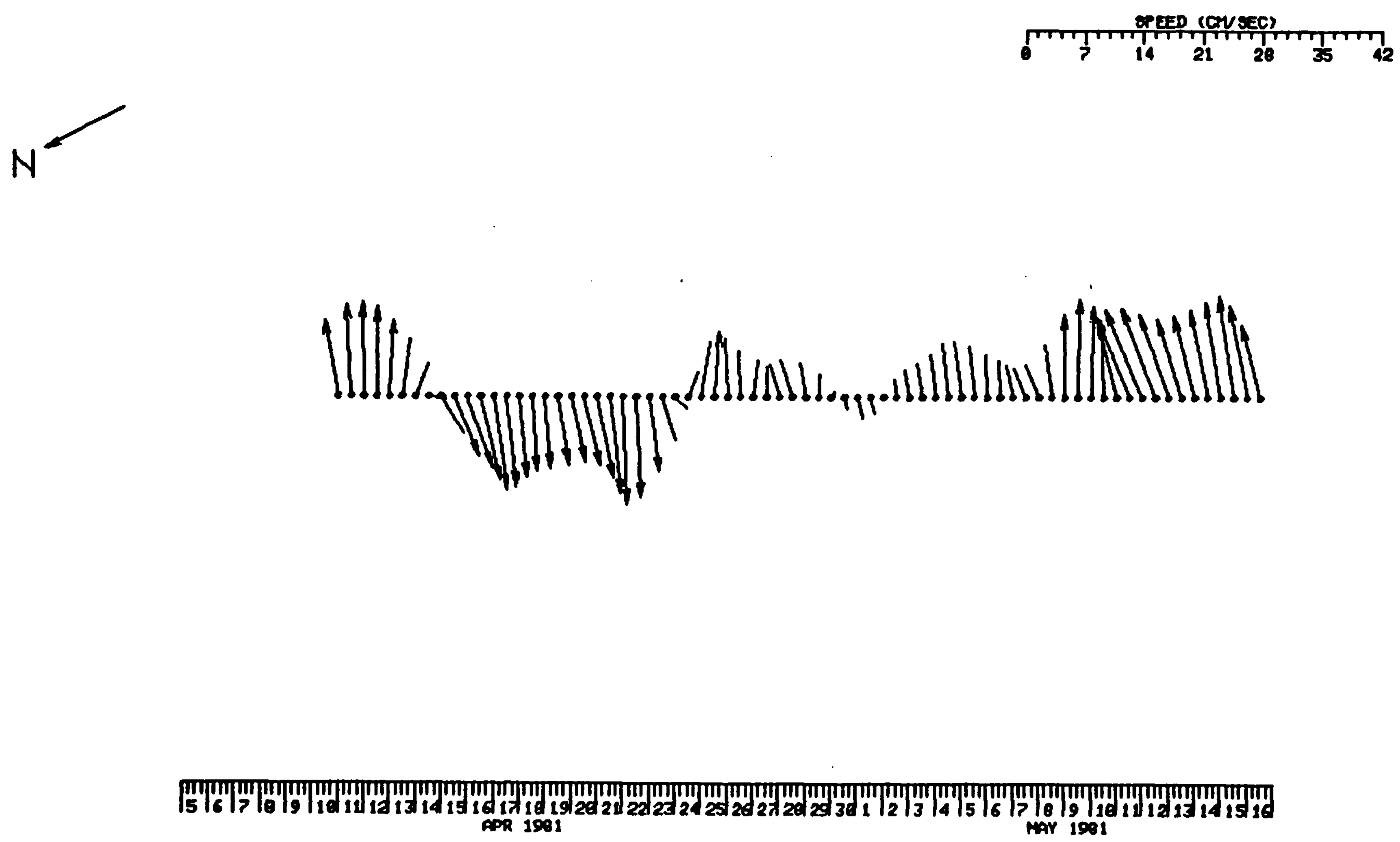
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-12



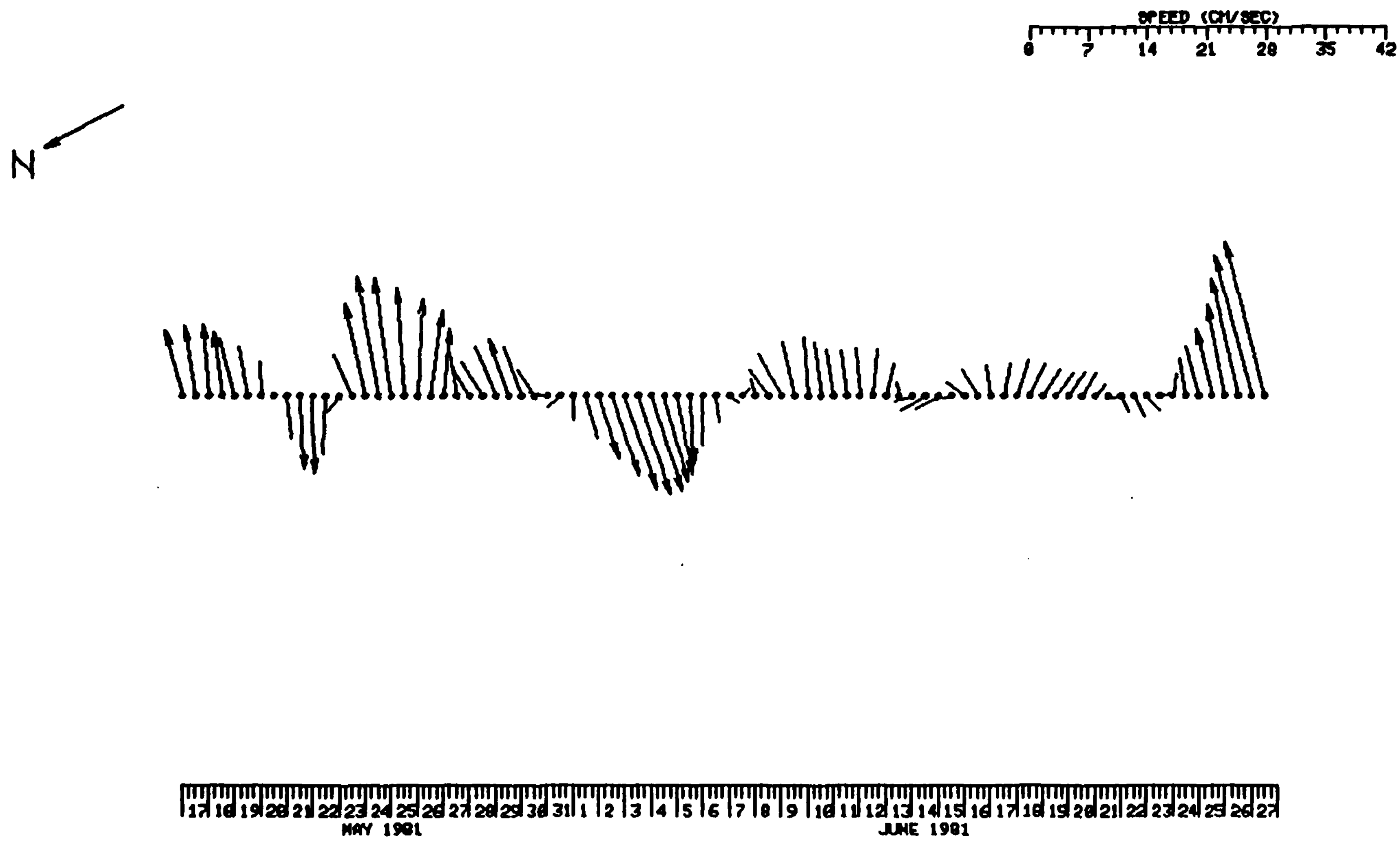
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-11



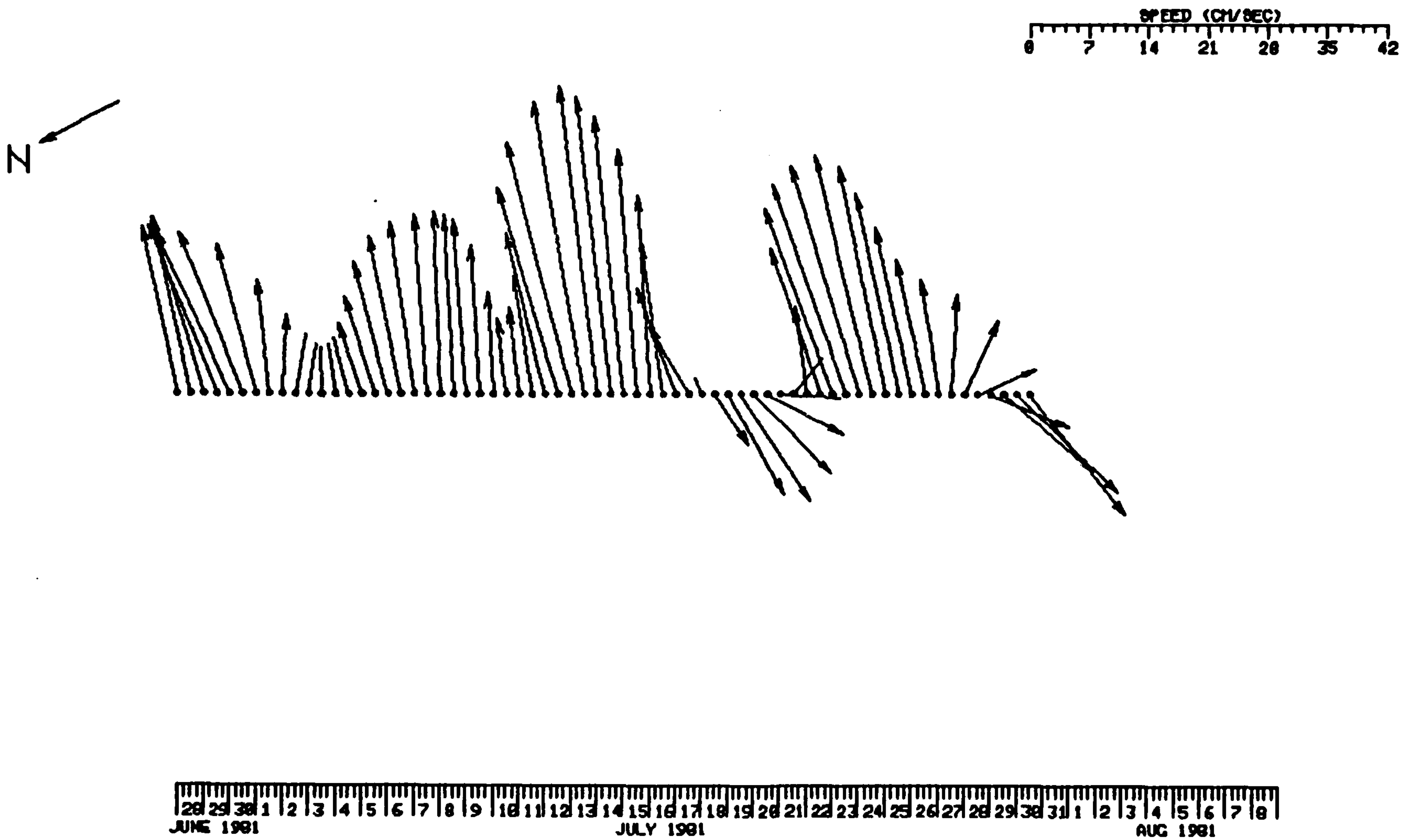
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-11



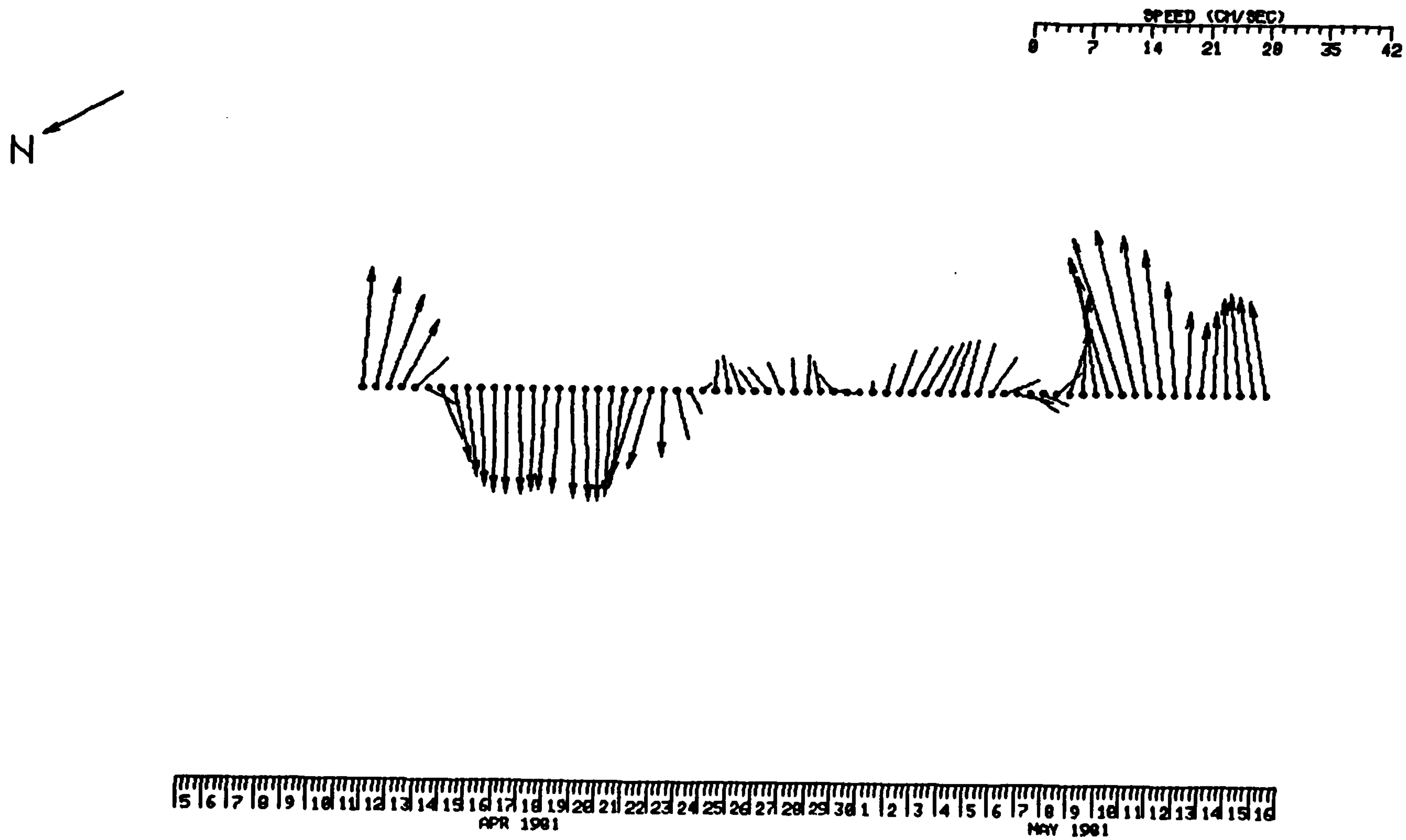
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-11



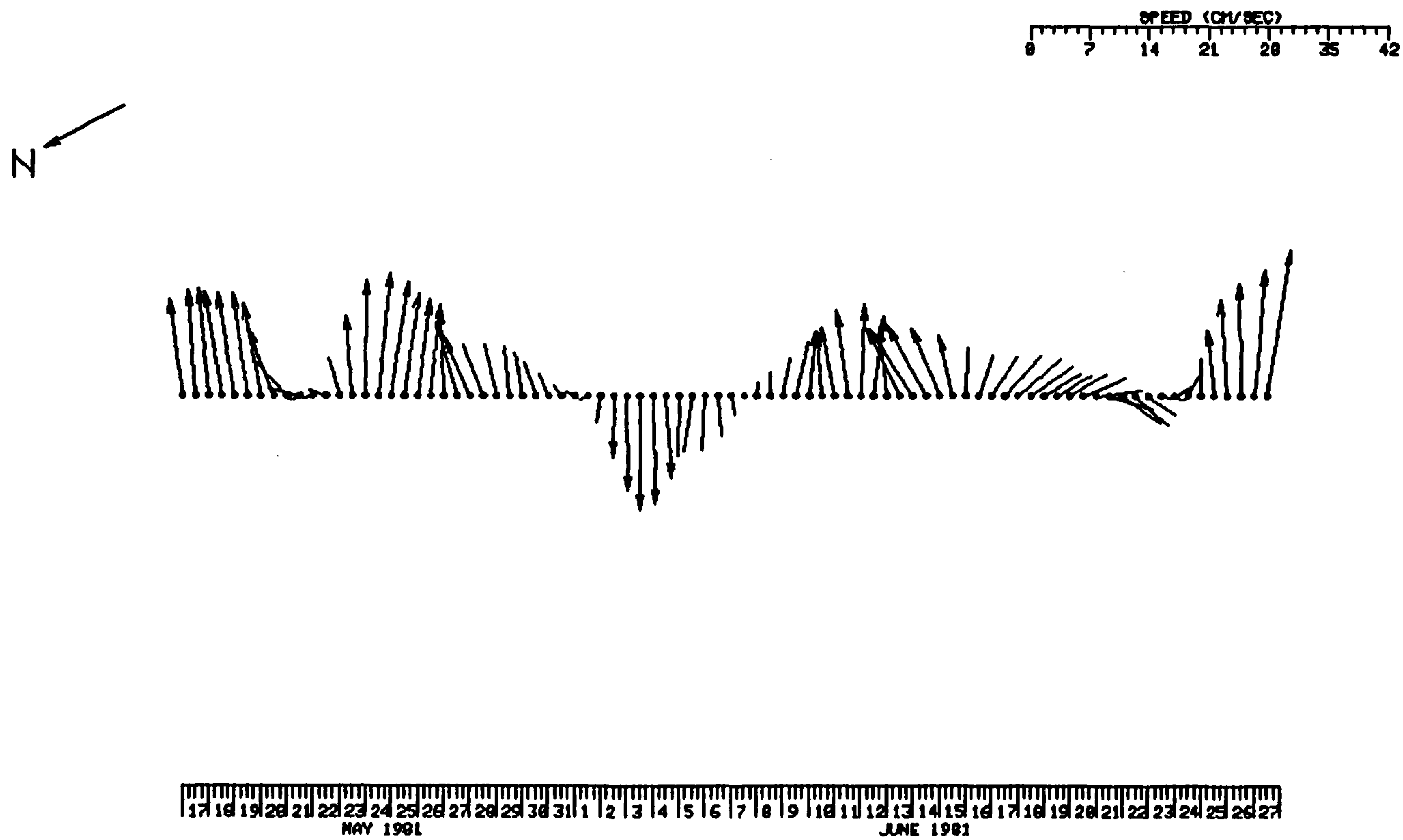
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-21



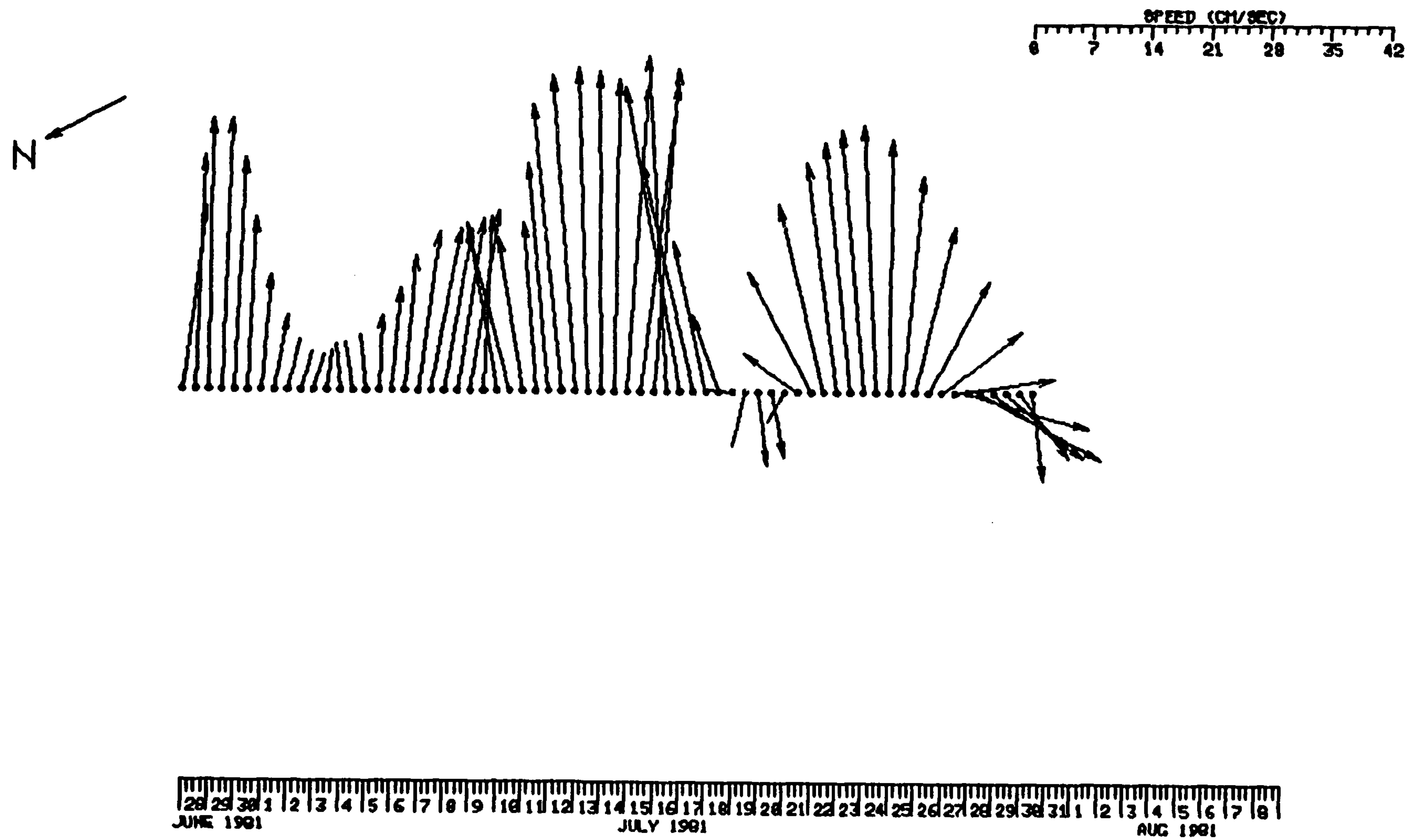
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-21



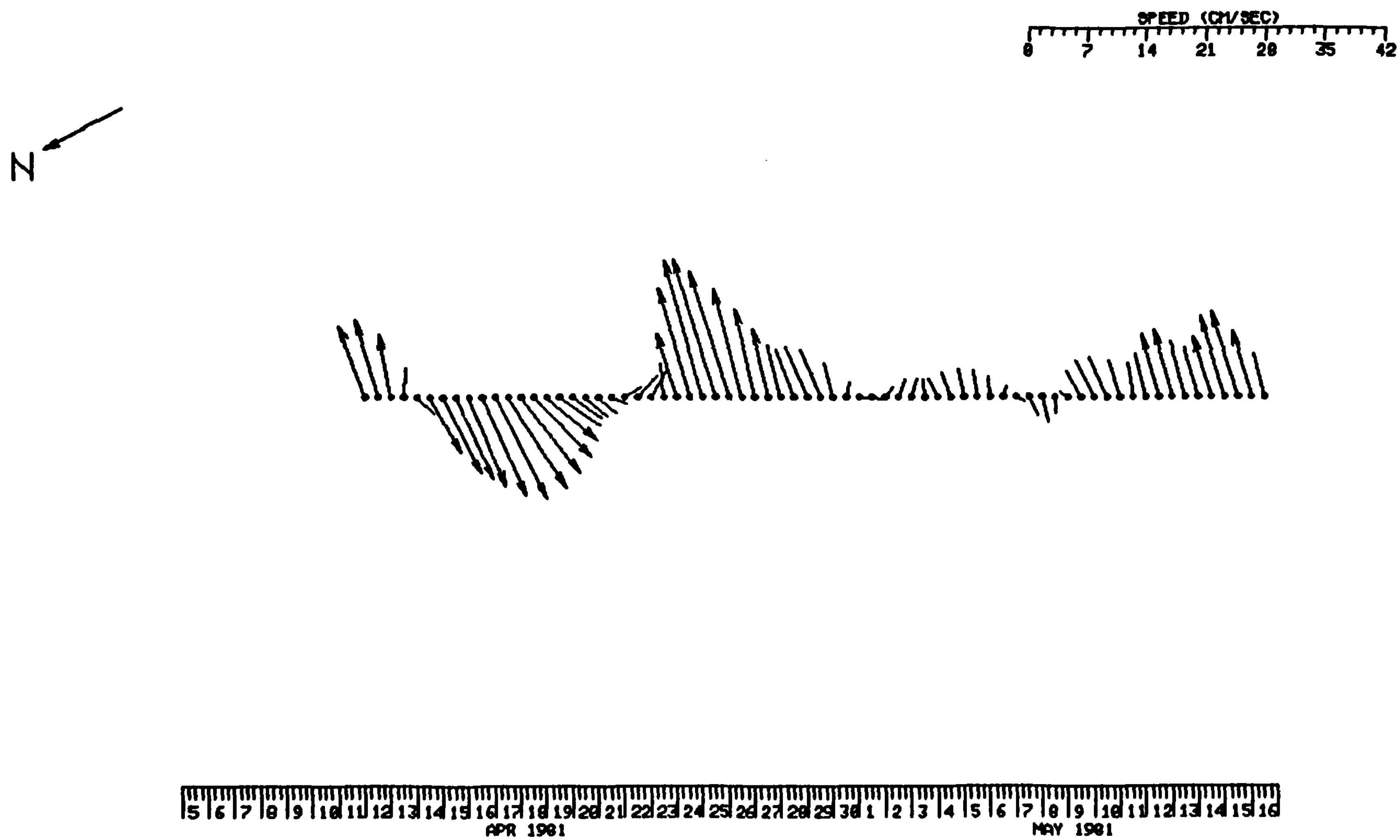
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-21



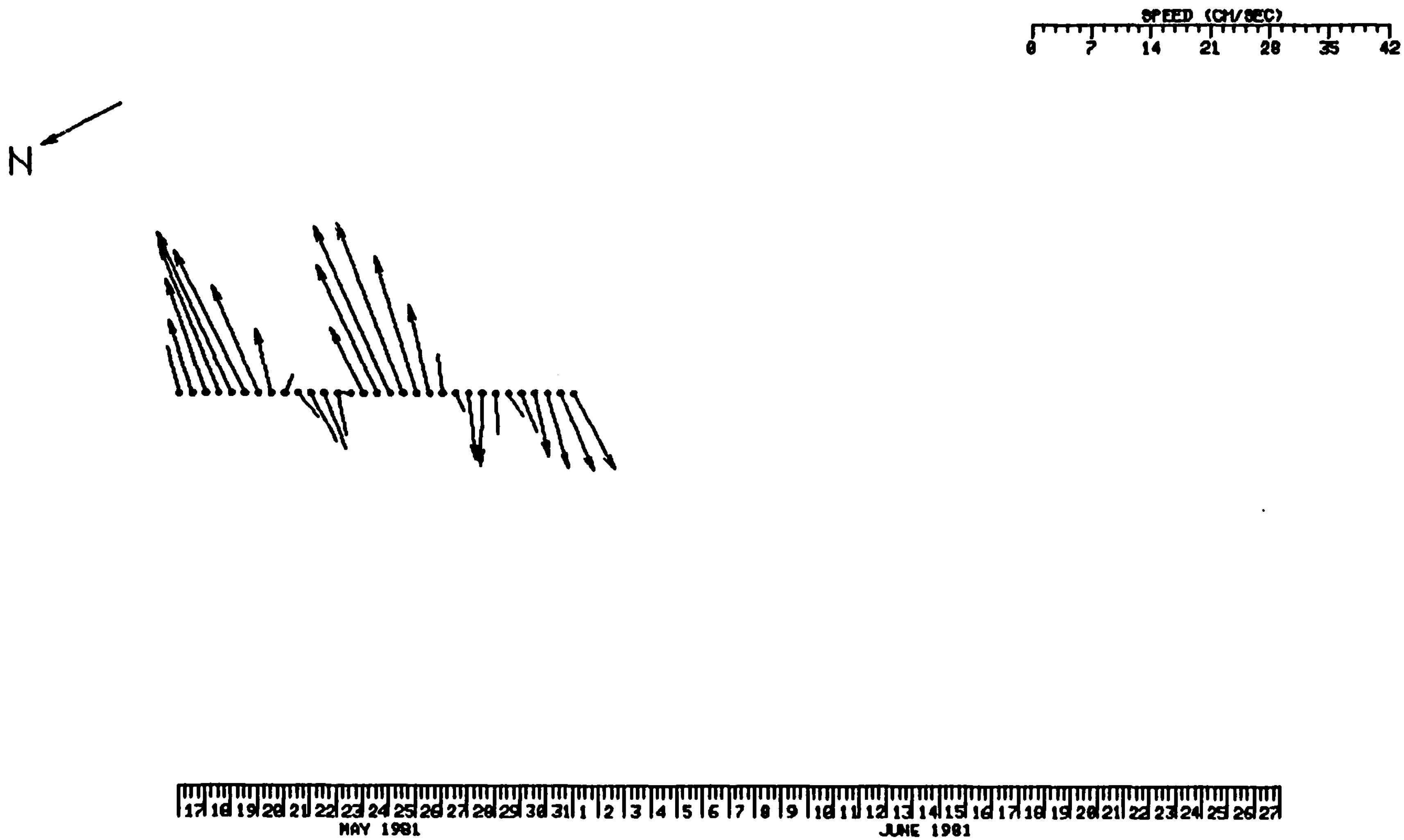
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-22



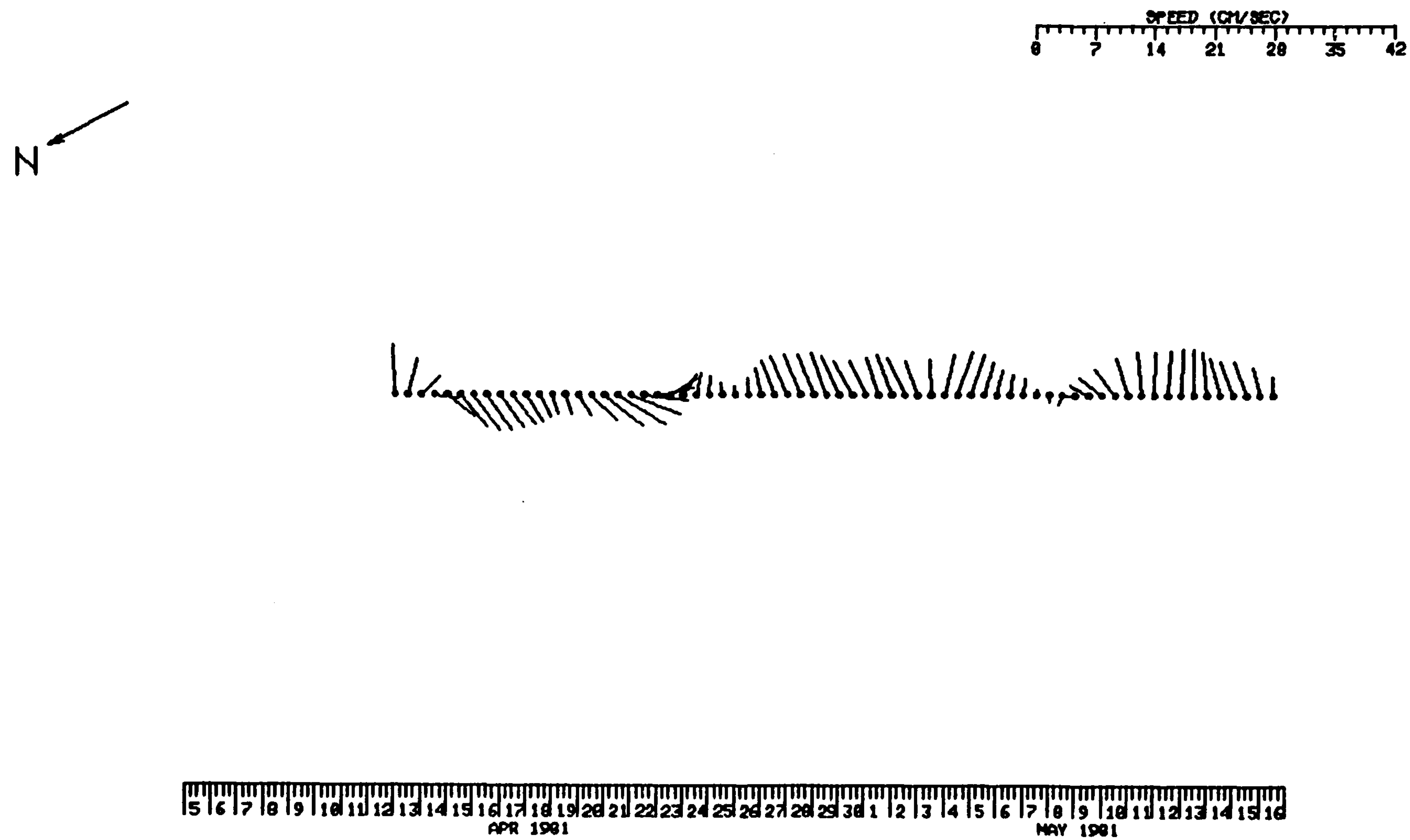
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-22



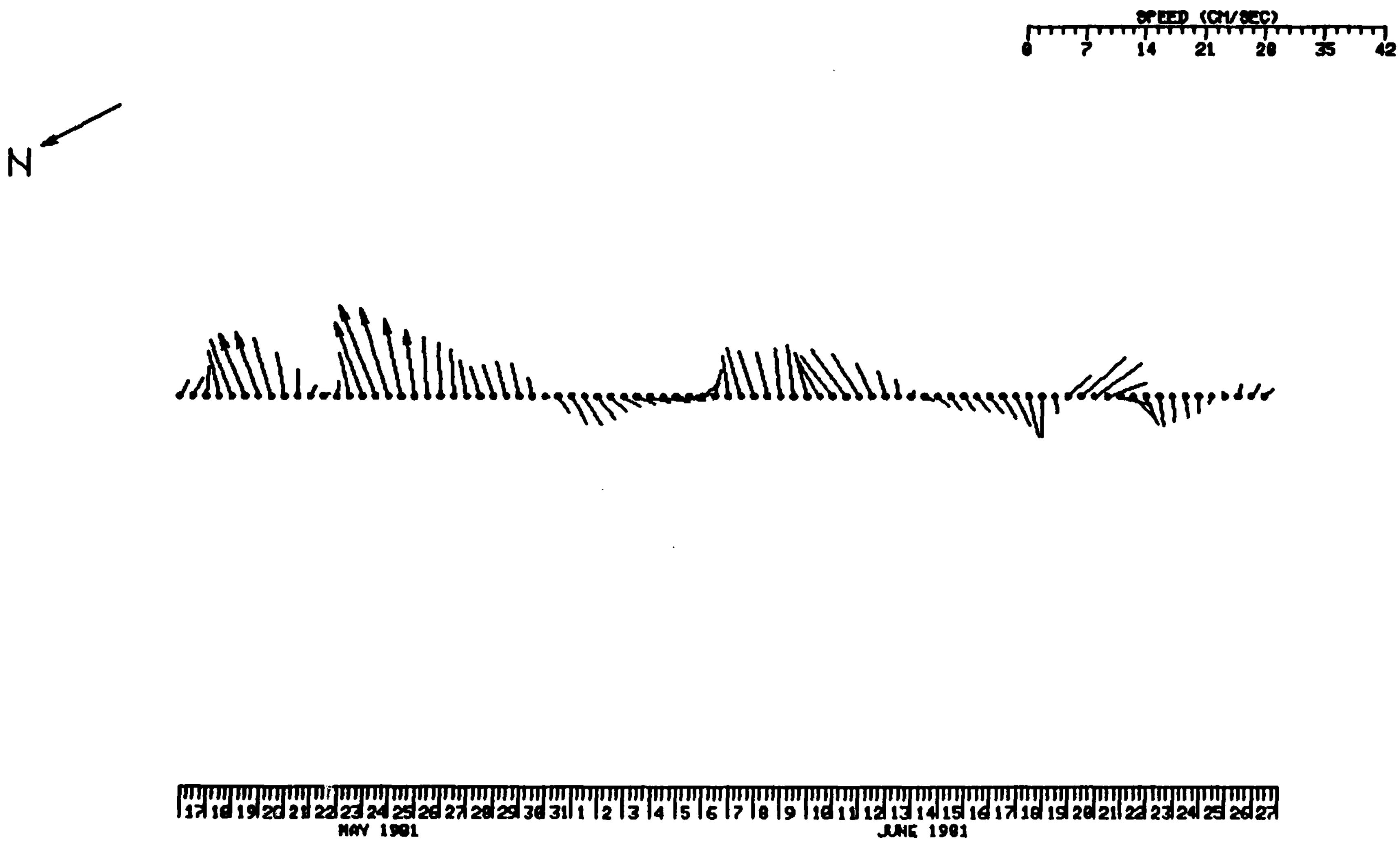
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-32



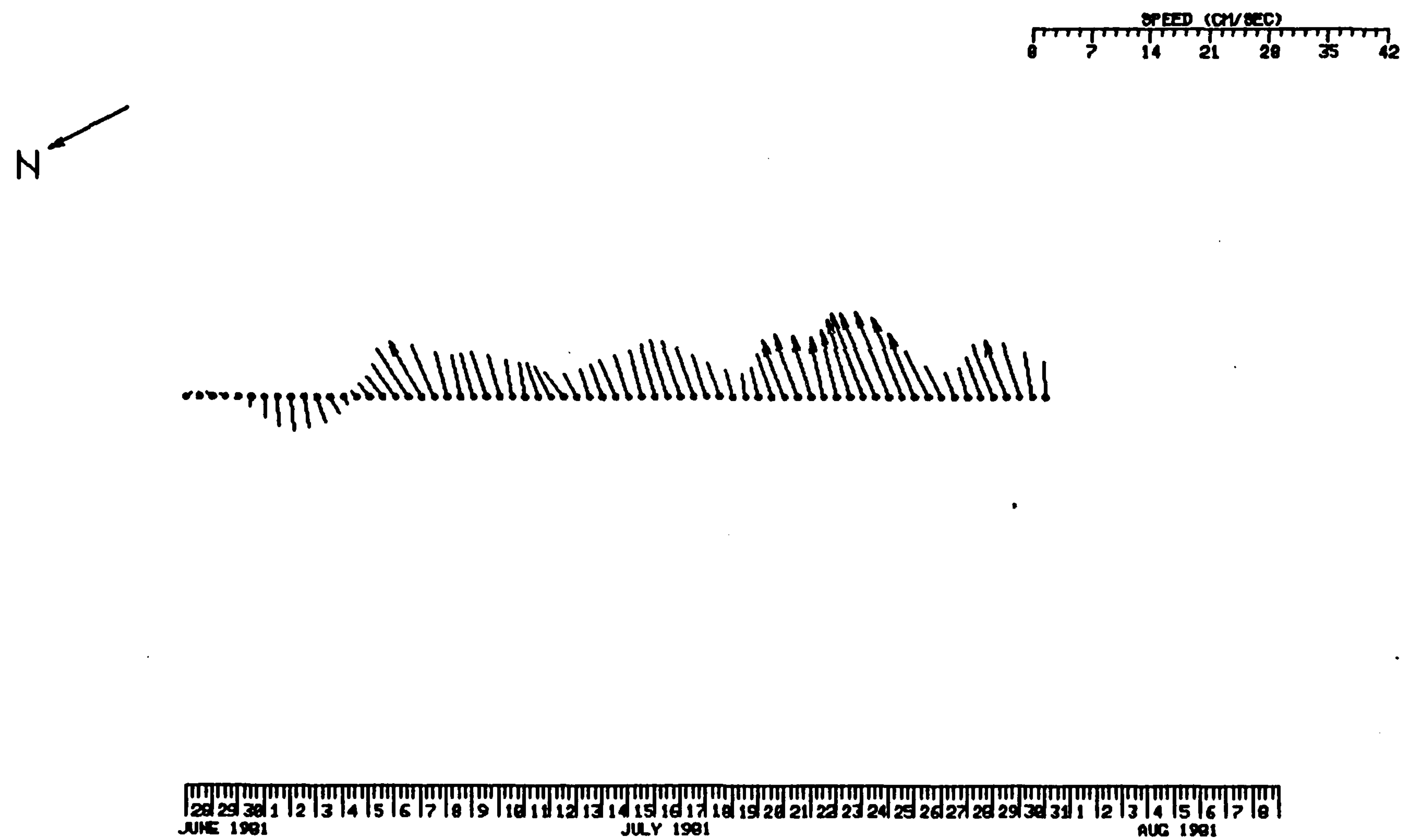
USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-32



USCG BEAUFORT SEA STUDY

STICKS PLOT OF FILTERED VELOCITY COMPONENTS FOR METER CG-32



DATA APPENDIX 4

Time Series Plots of Temperatures at
Coast Guard Current Meters

USCG BEAUFORT SEA STUDY

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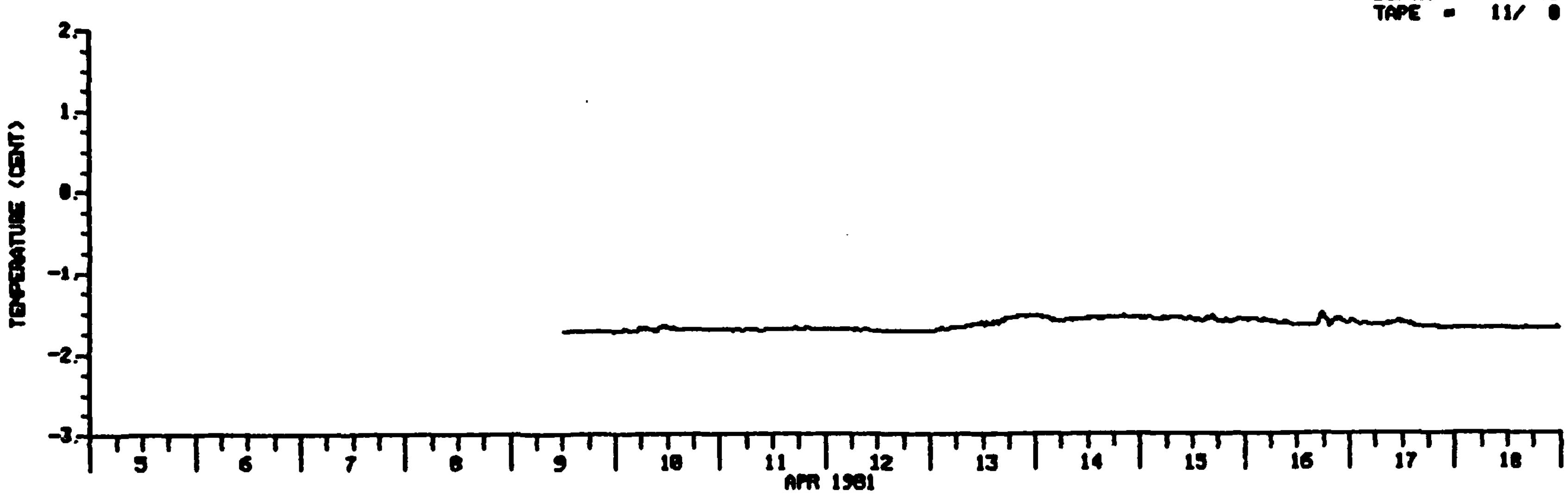
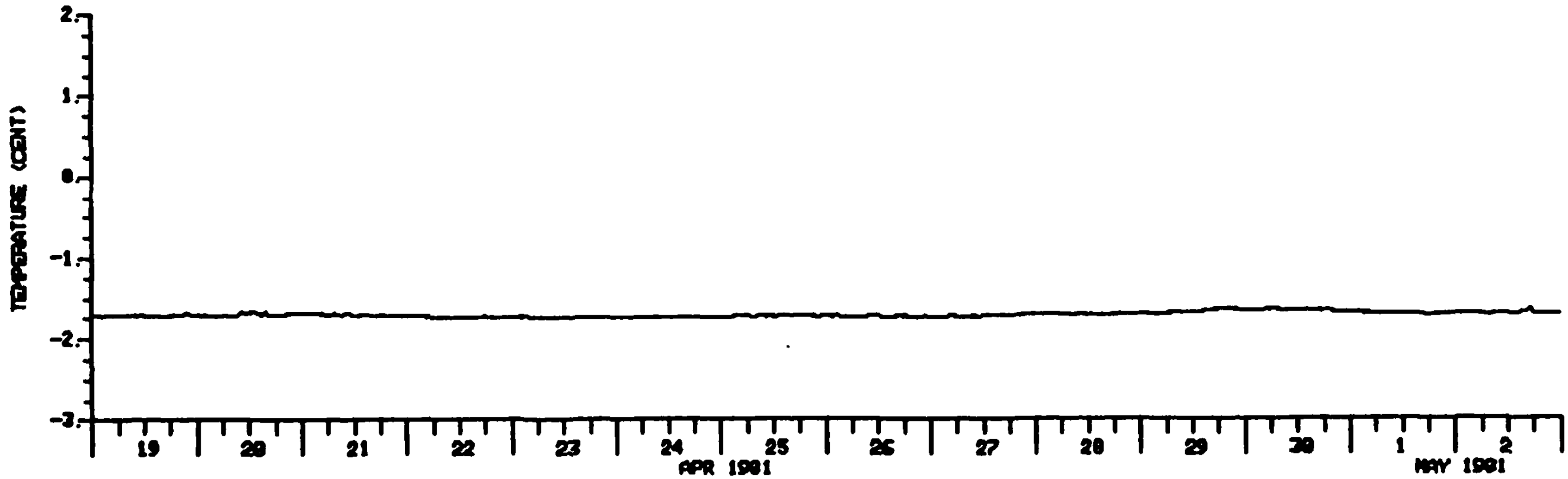
STNID = CO-1
DEPTH = 40
TAPE = 11/ 0





USCG BEAUFORT SEA STUDY

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STNID = CG-1
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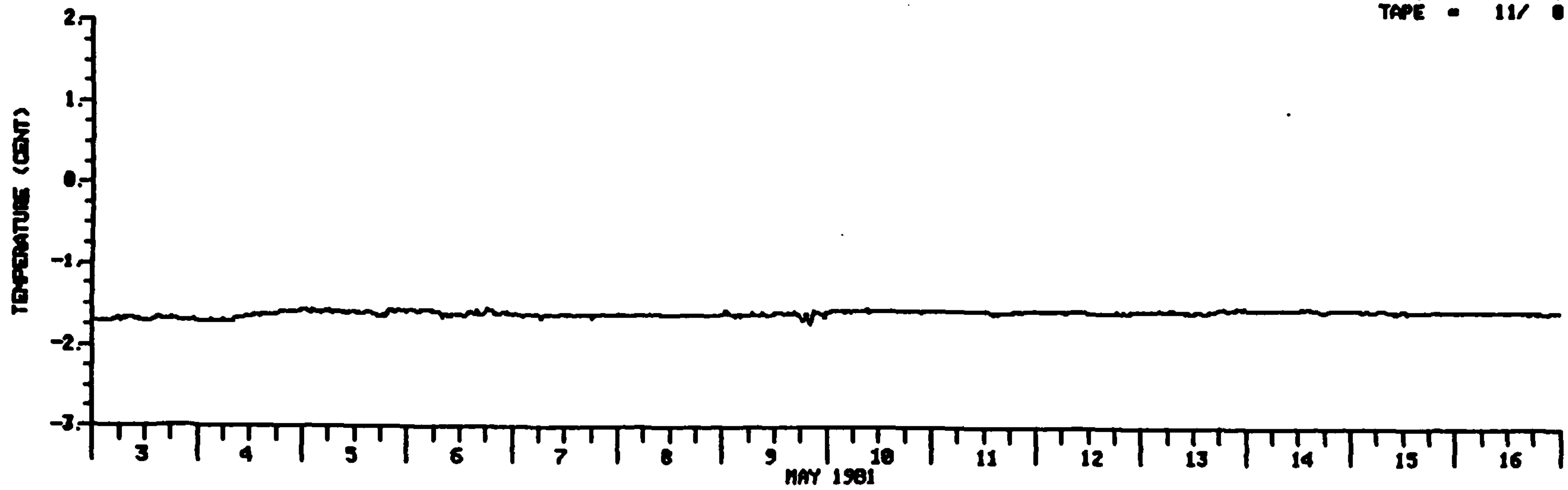
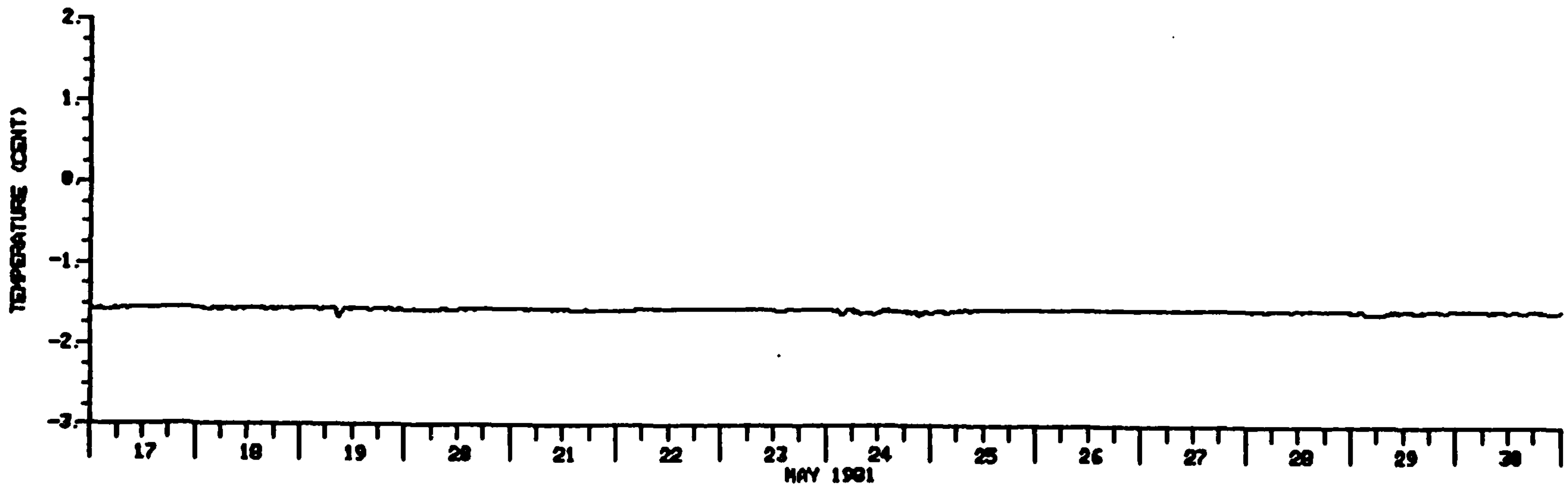
TAPE = 11/ 8





USCG BEAUFORT SEA STUDY

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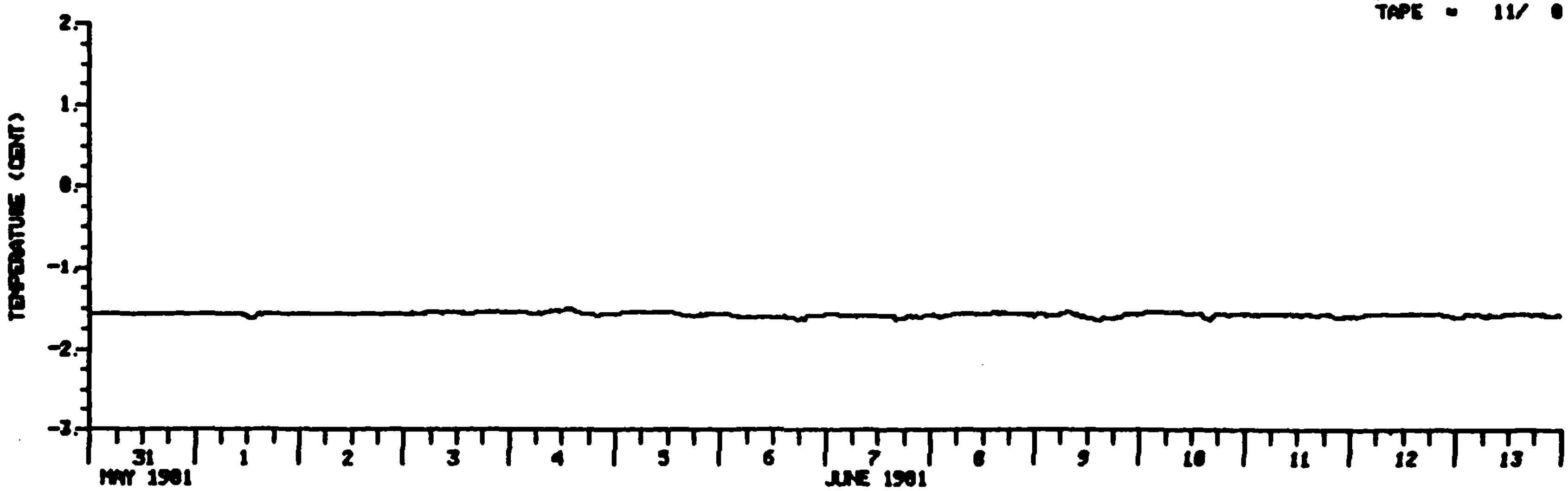
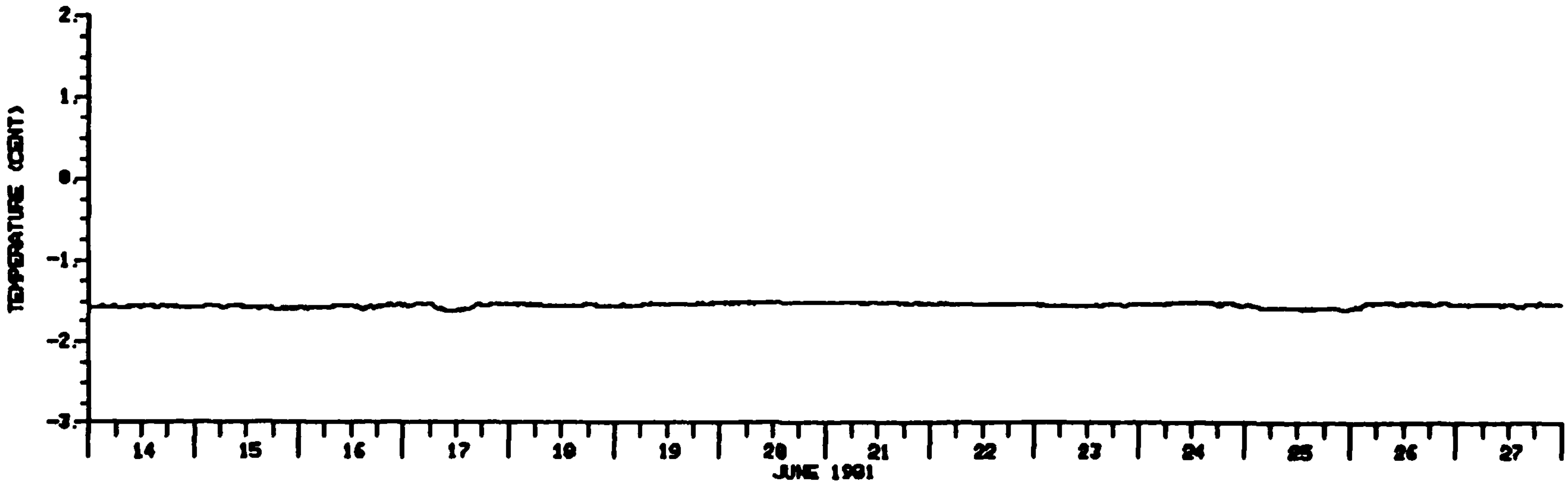
STNID = CQ-1
DEPTH = 40
TAPE = 11/ 8





USCG BEAUFORT SEA STUDY

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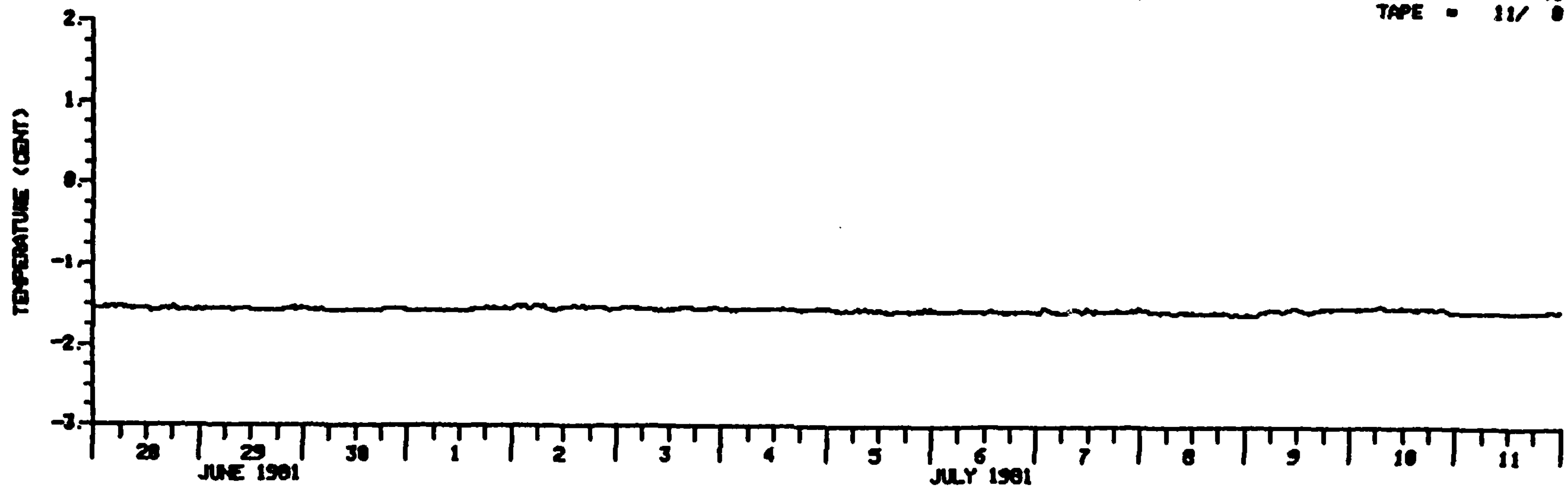

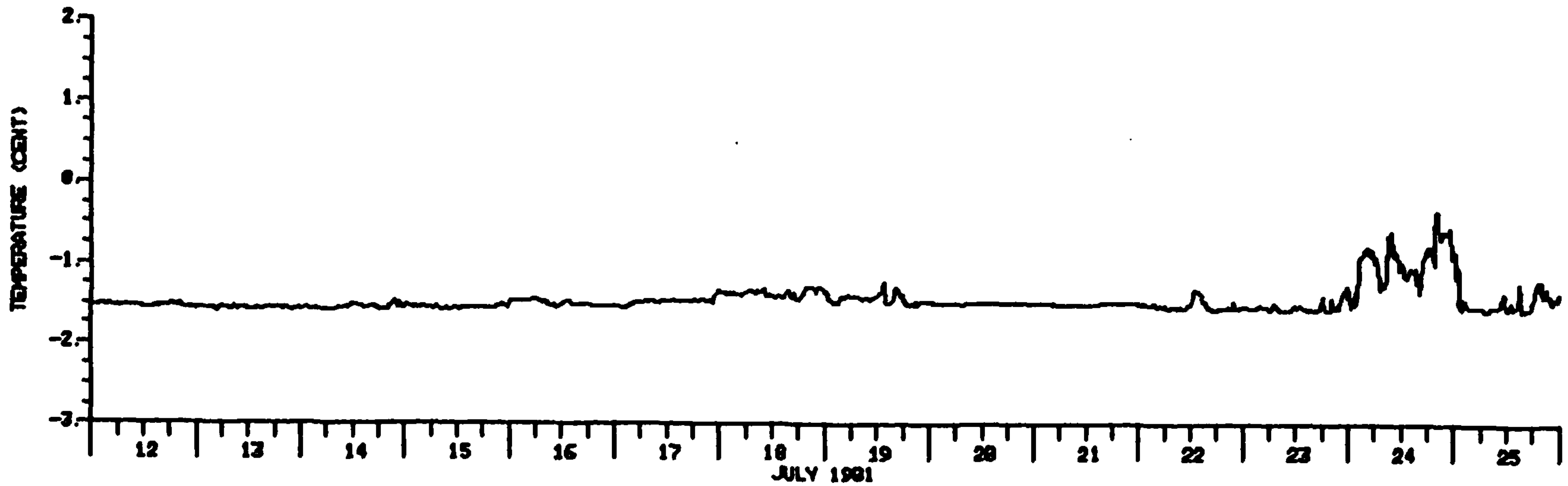

USCG BEAUFORT SEA STUDY

PAGE = 5
STNID = CO-1
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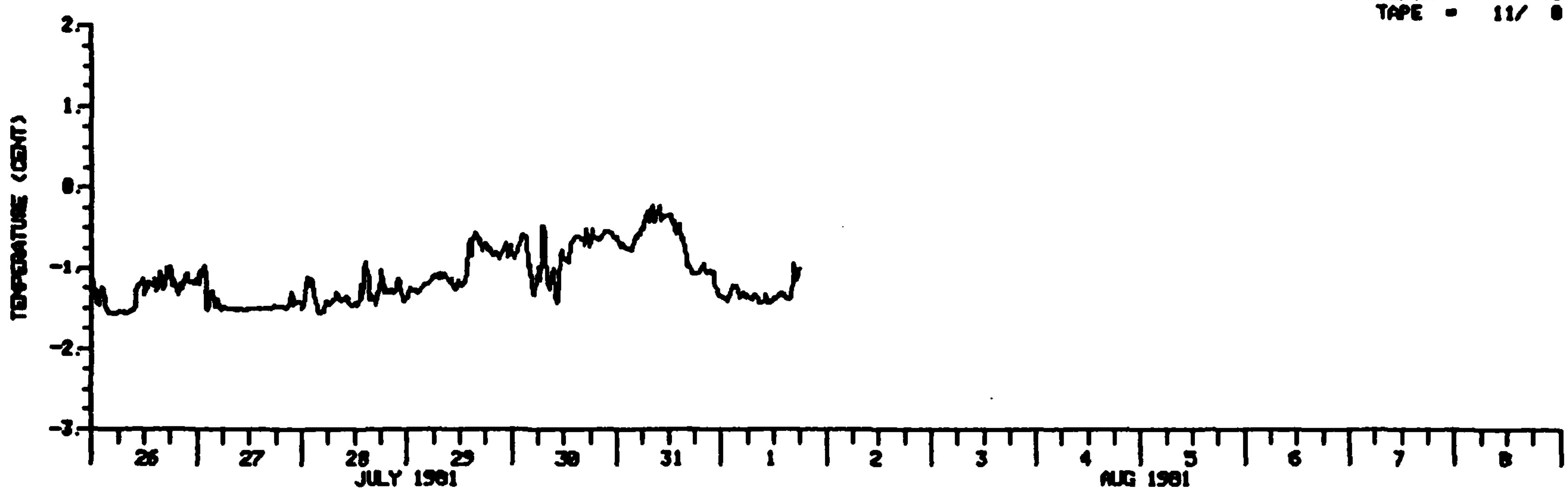

USCG BEAUFORT SEA STUDY

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STNID = CQ-1
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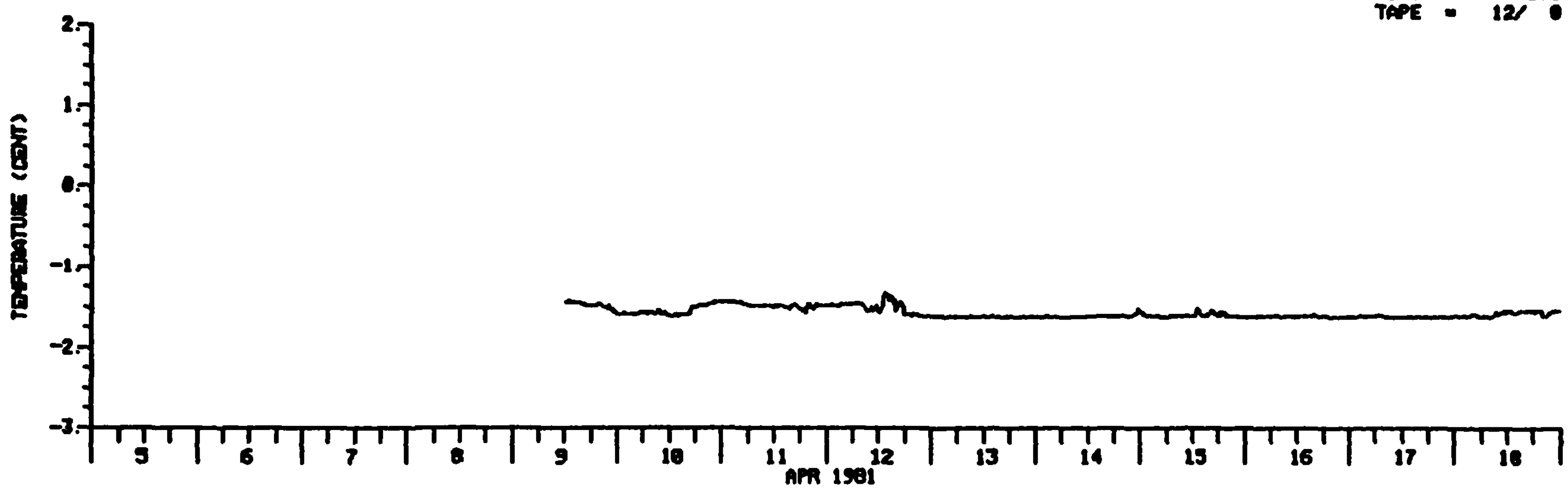

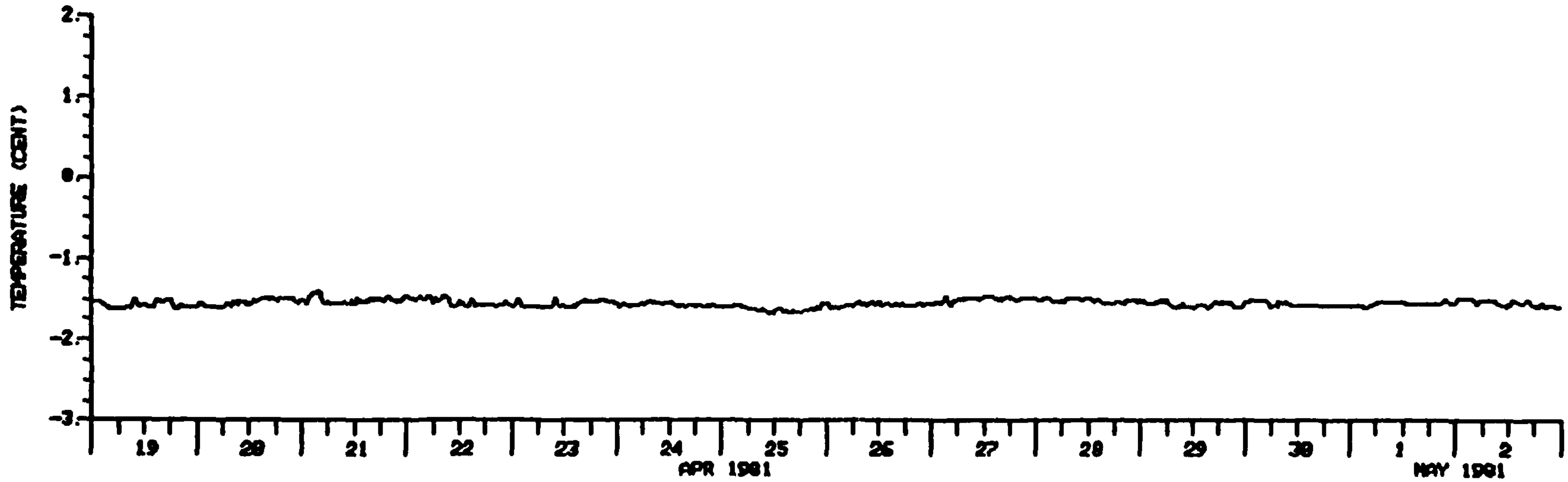

USCG BEAUFORT SEA STUDY

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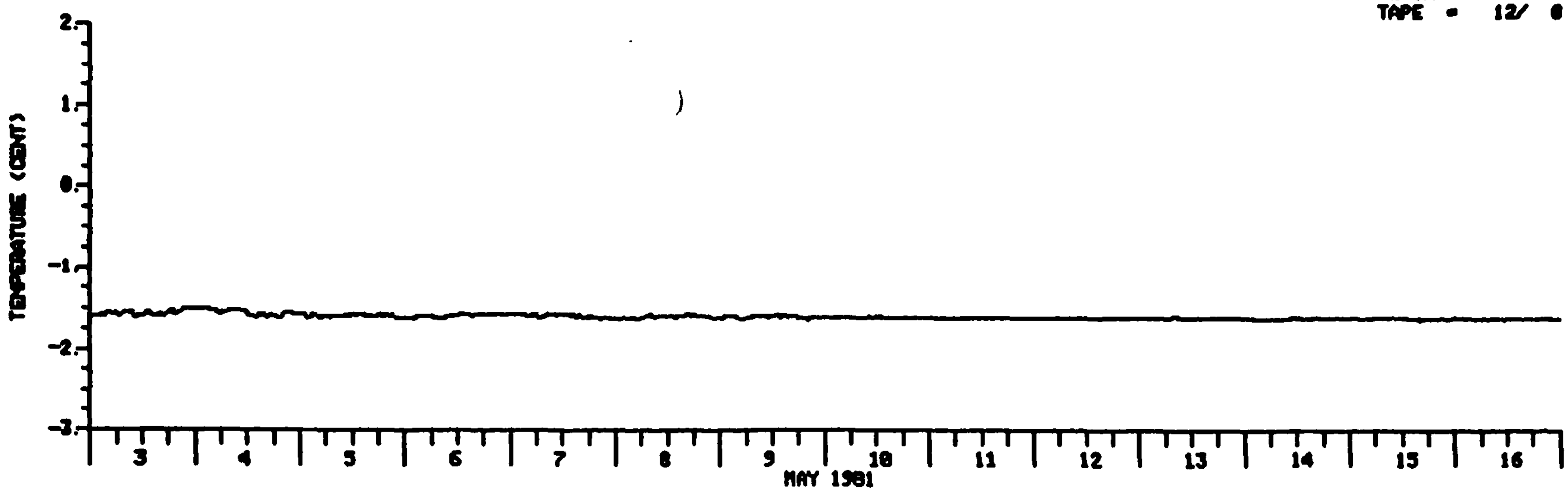
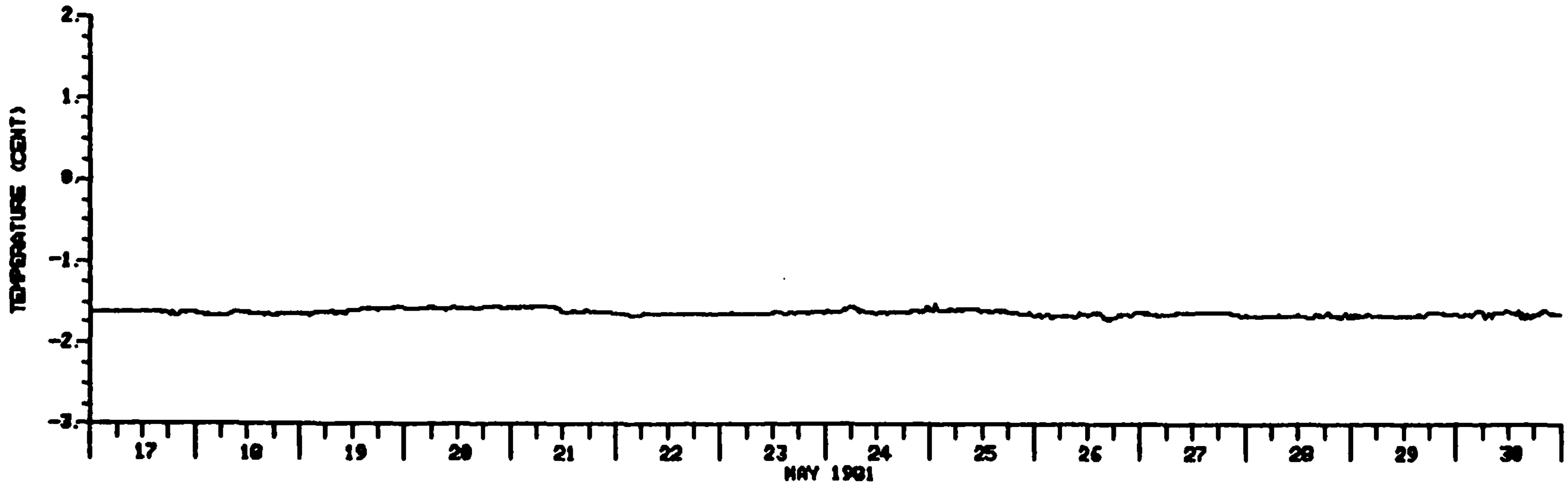
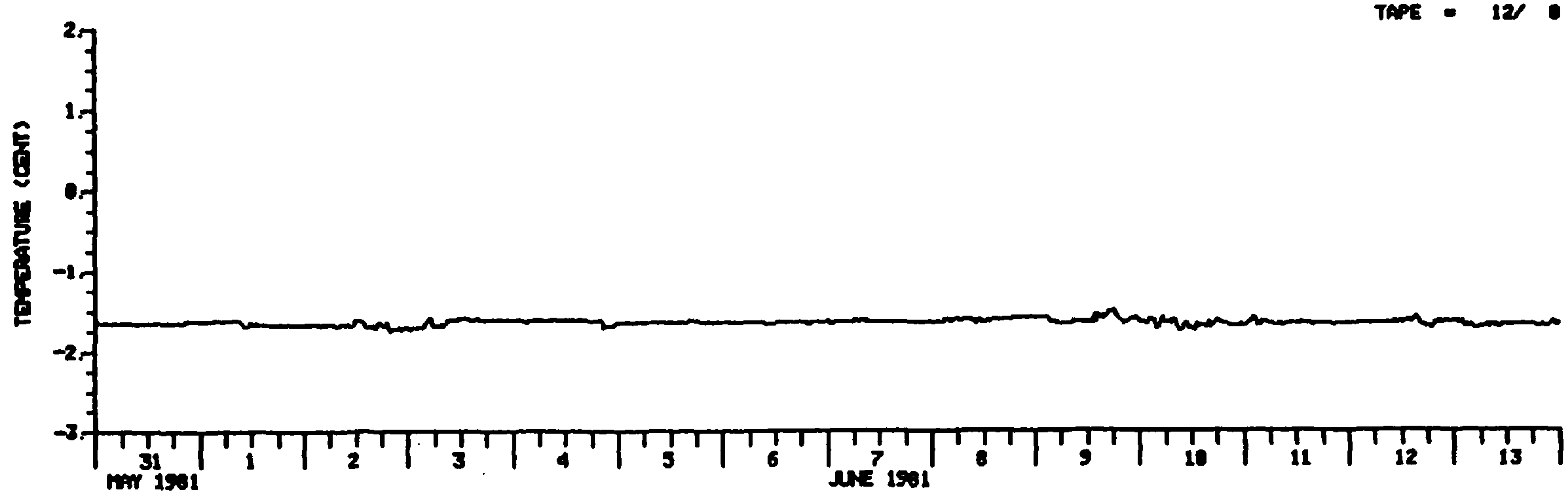
STNID = CO-1
DEPTH = 150
TAPE = 12/ 6

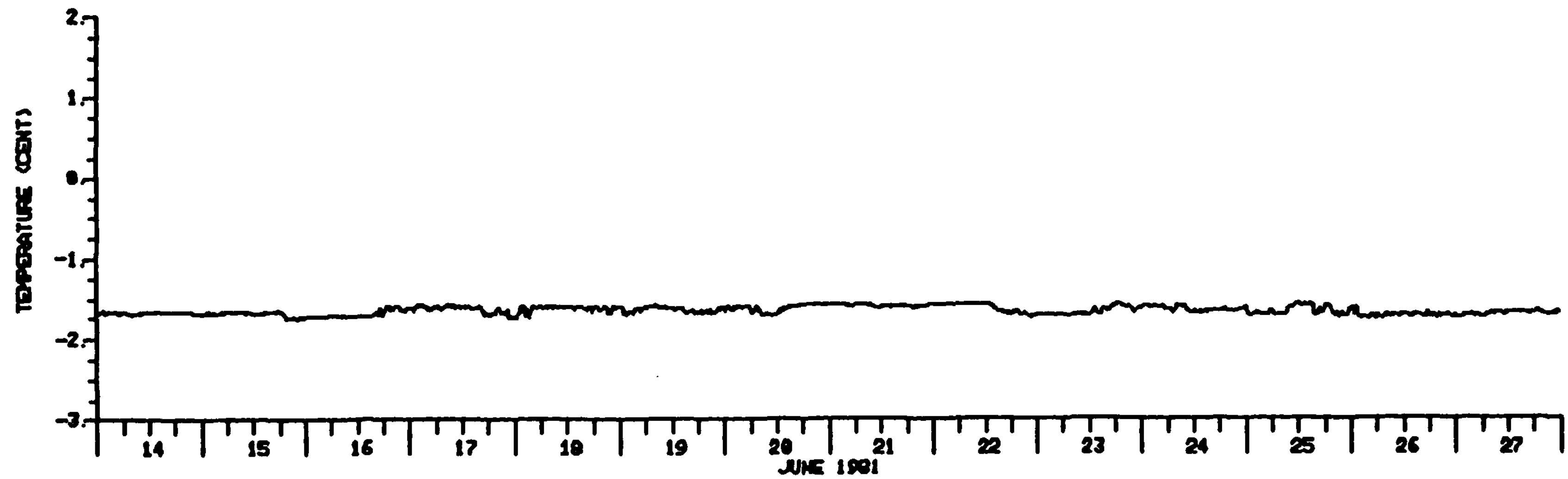




USCG BEAUFORT SEA STUDY

PAGE = 3
STNID = CQ-1
DEPTH = 150
TAPE = 12/ 8





USCG BEAUFORT SEA STUDY

PAGE = 4
STNID = CG-1
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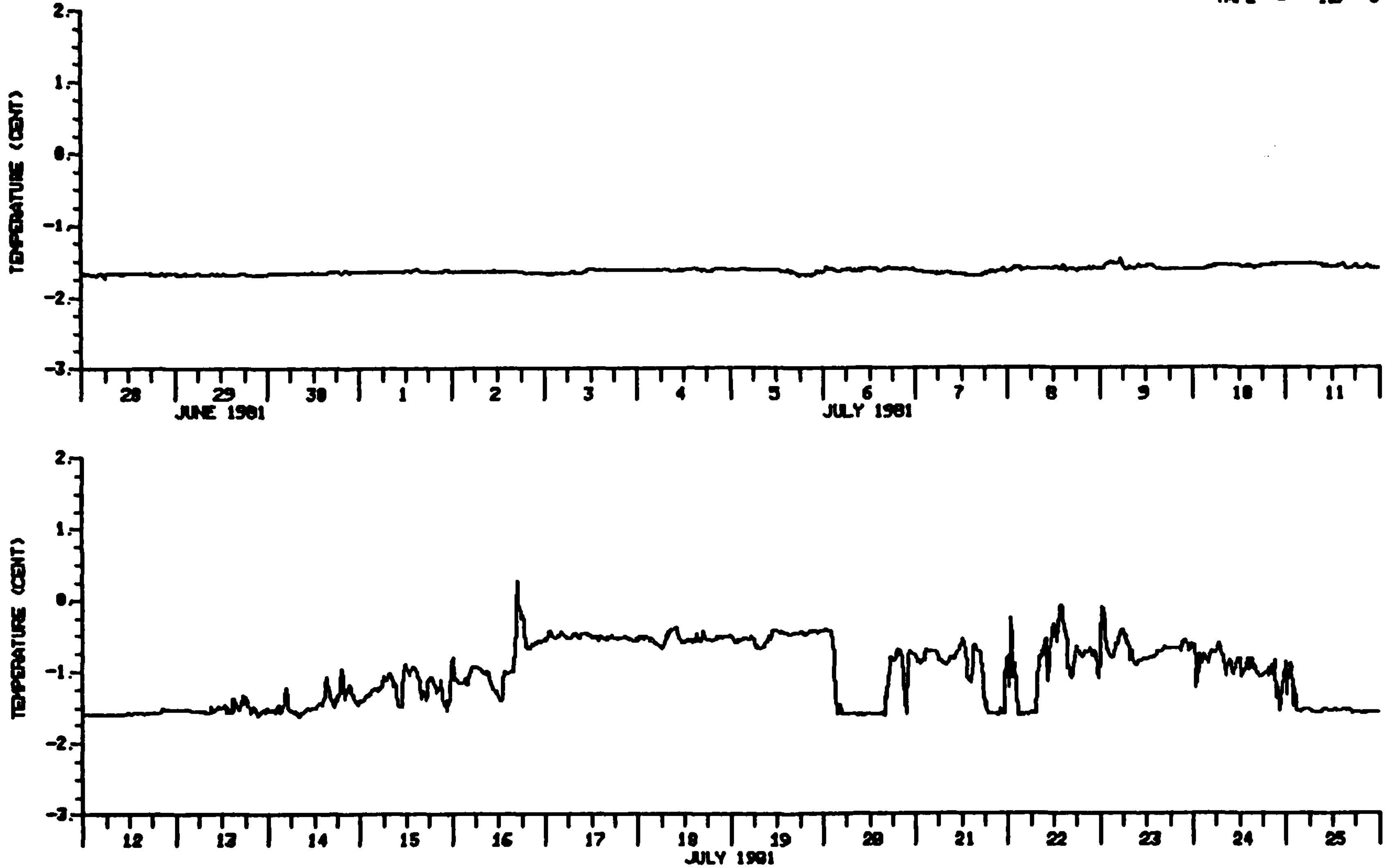
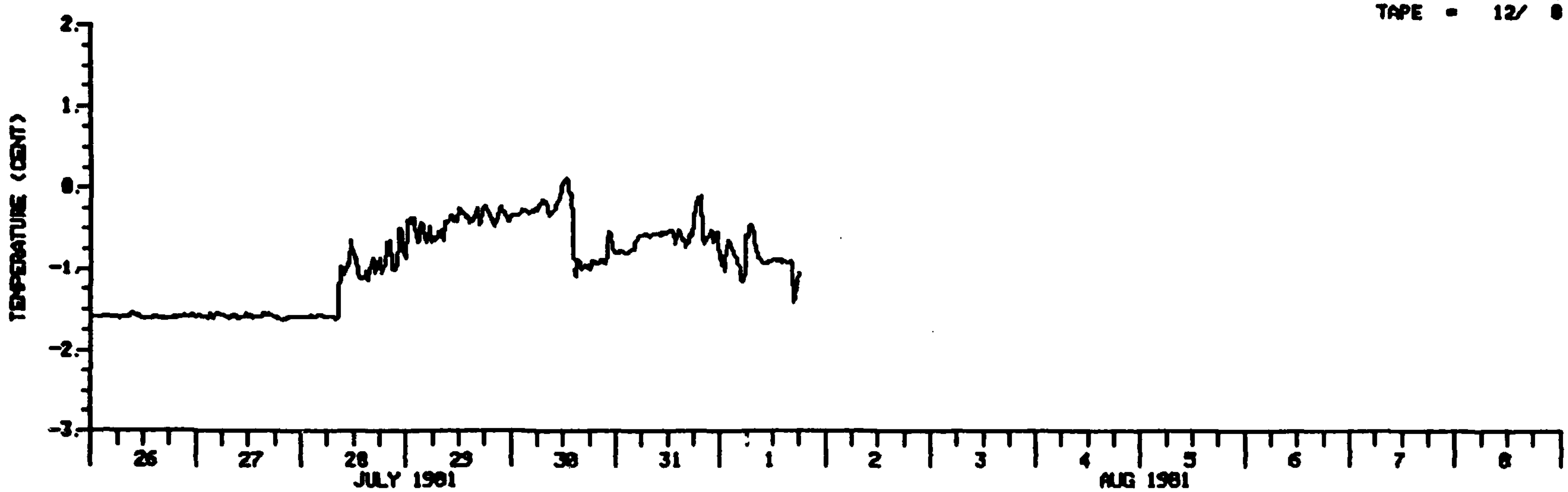


USCG BEAUFORT SEA STUDY

PAGE = 5
STNID = CQ-1
DEPTH = 150
TAPE = 12/ 8



USCG BEAUFORT SEA STUDY

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STNID = CG-2
DEPTH = 40
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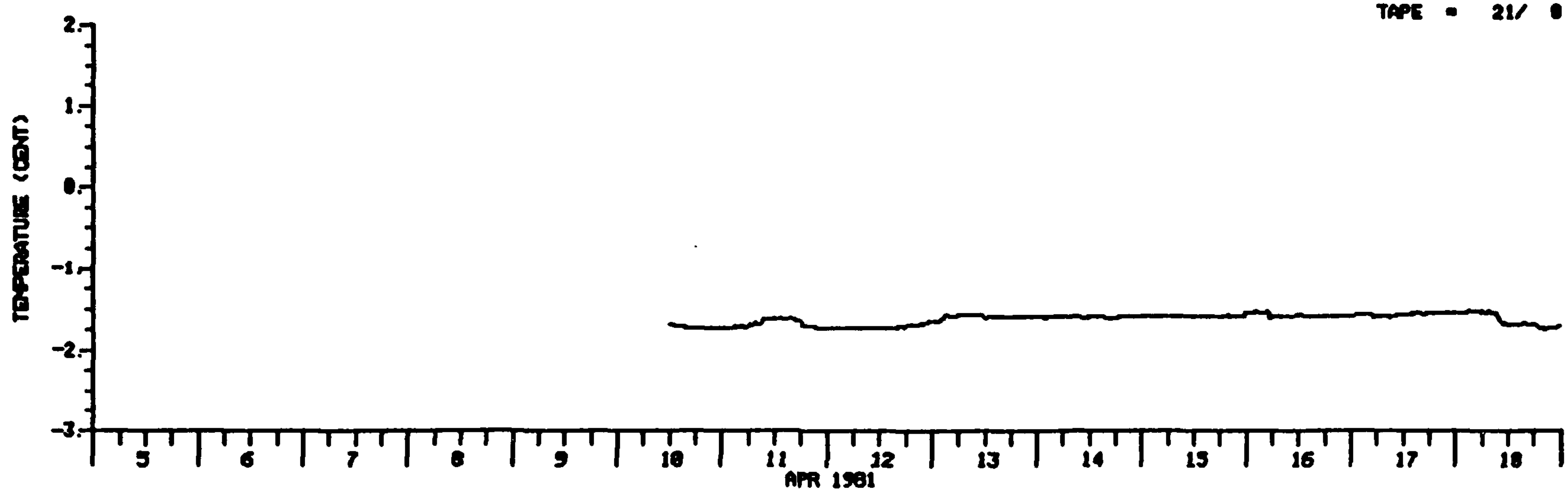

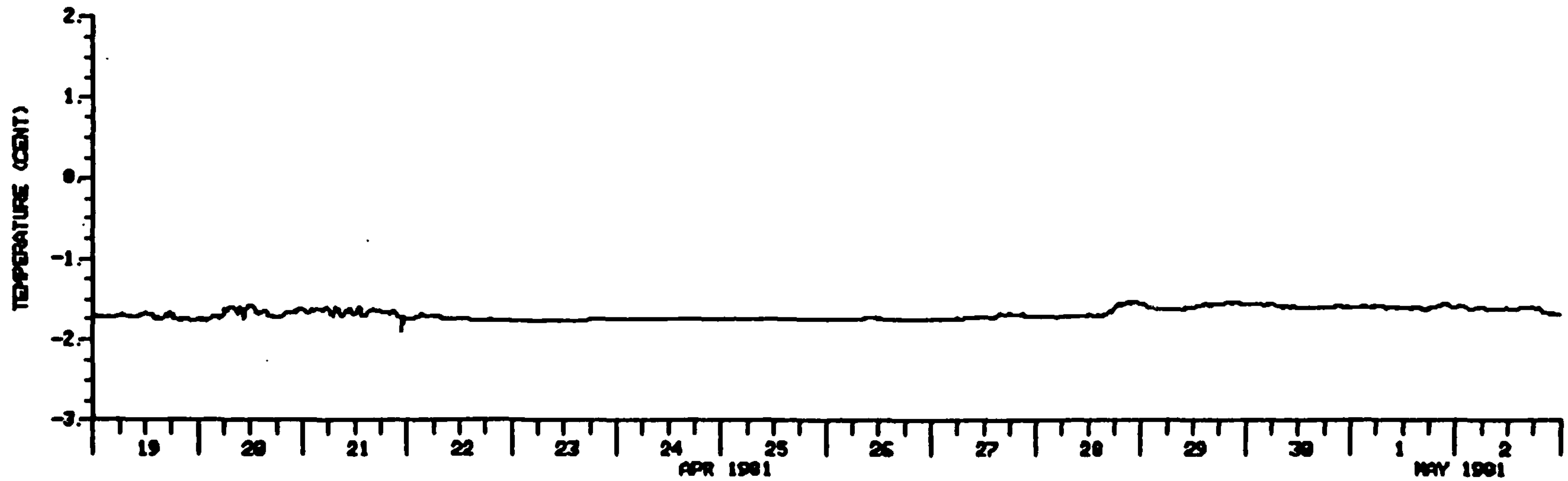

USCG BEAUFORT SEA STUDY

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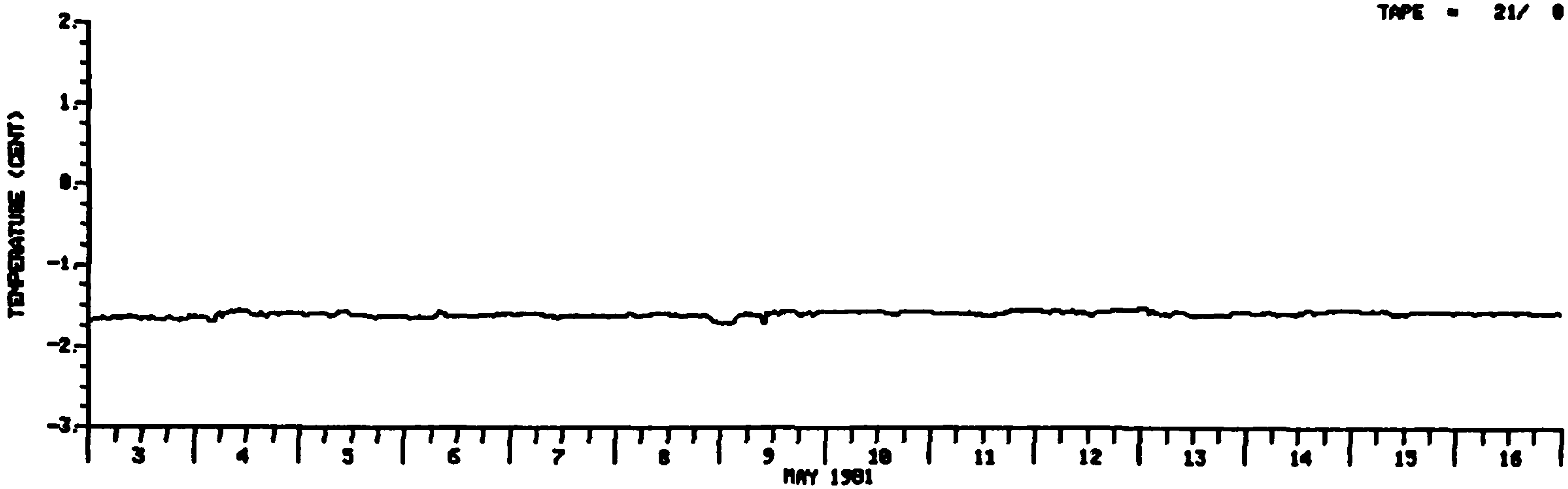

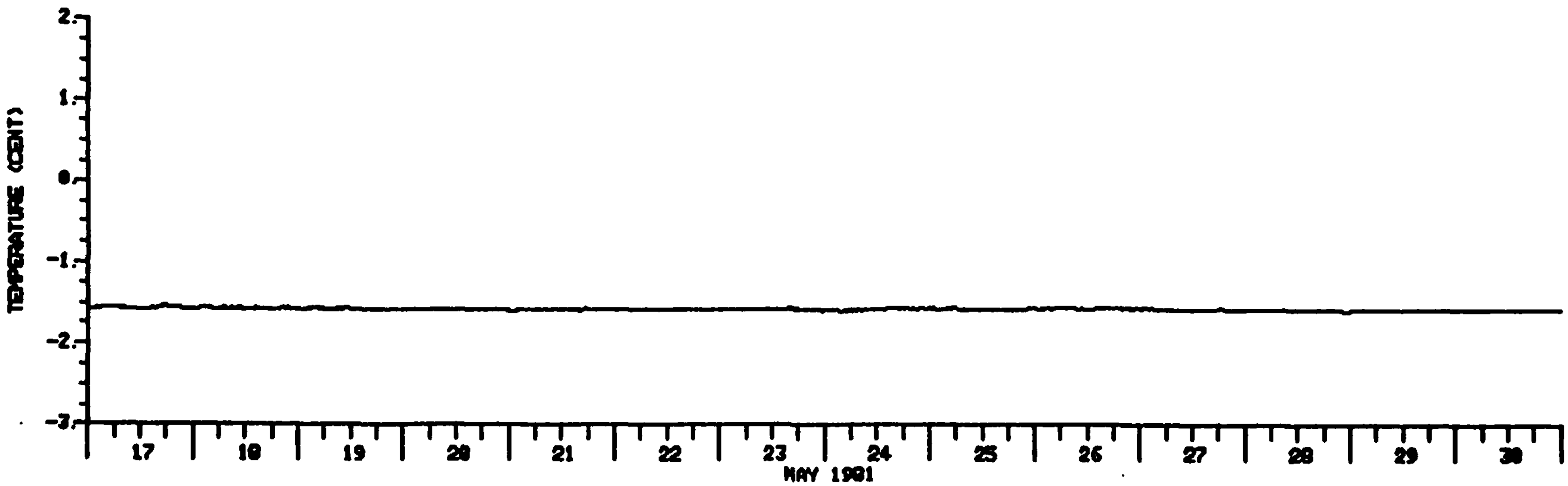

USCG BEAUFORT SEA STUDY

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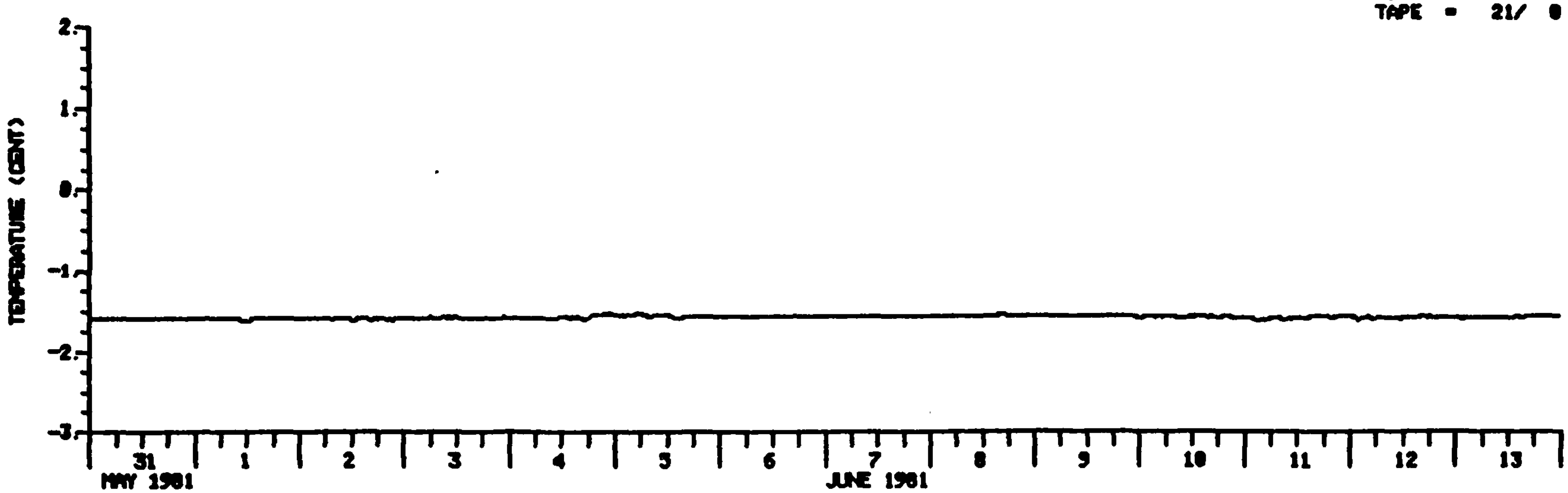
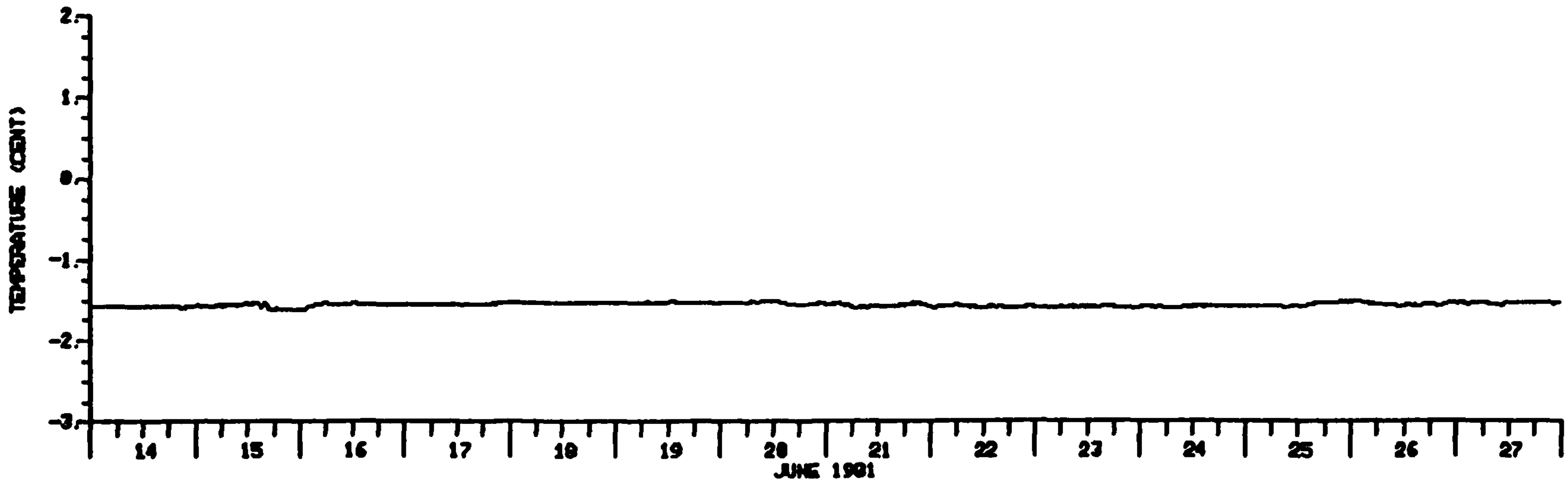
STNID = CO-2
DEPTH = 40
TAPE = 21/ 8





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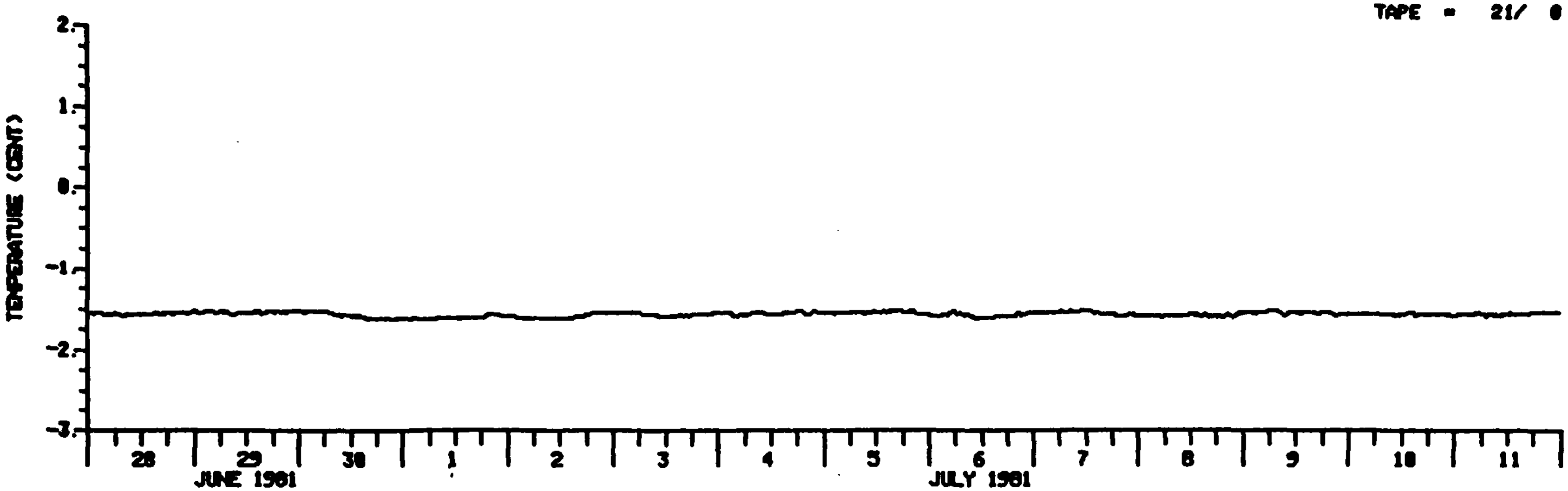

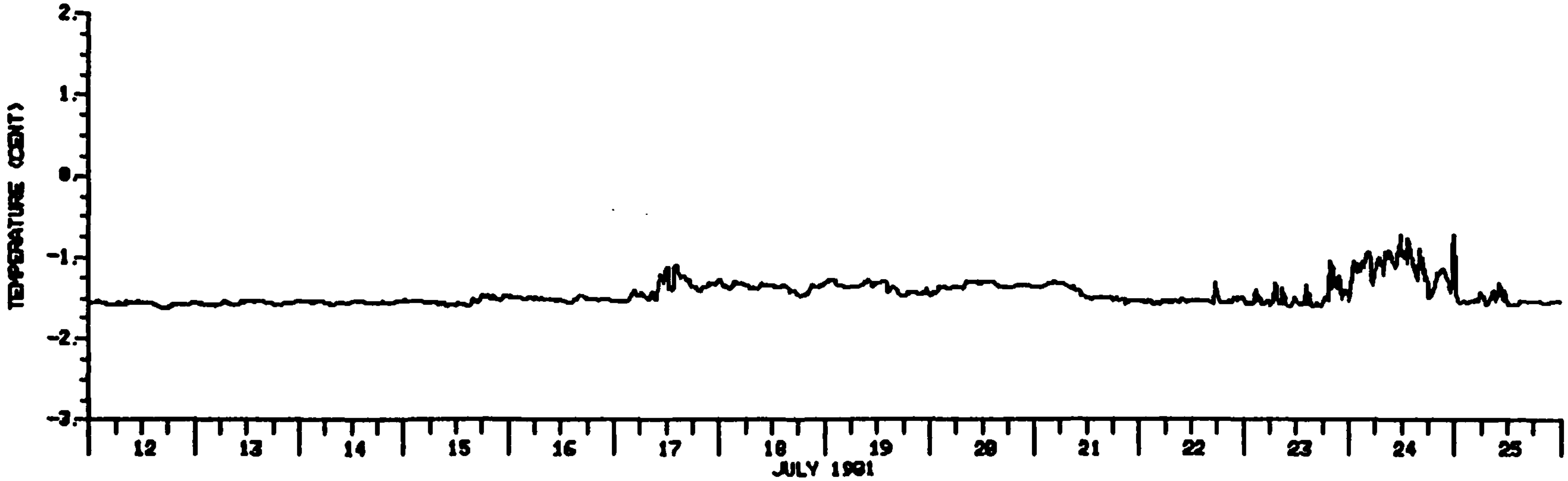

USCG BEAUFORT SEA STUDY

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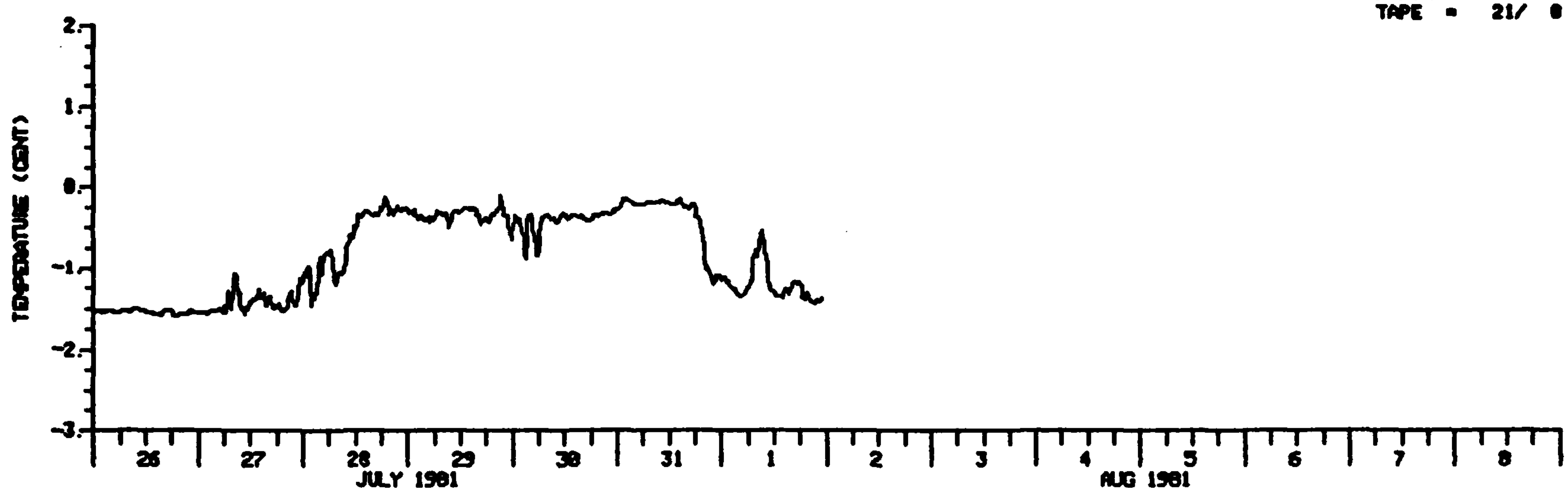

USCG BEAUFORT SEA STUDY

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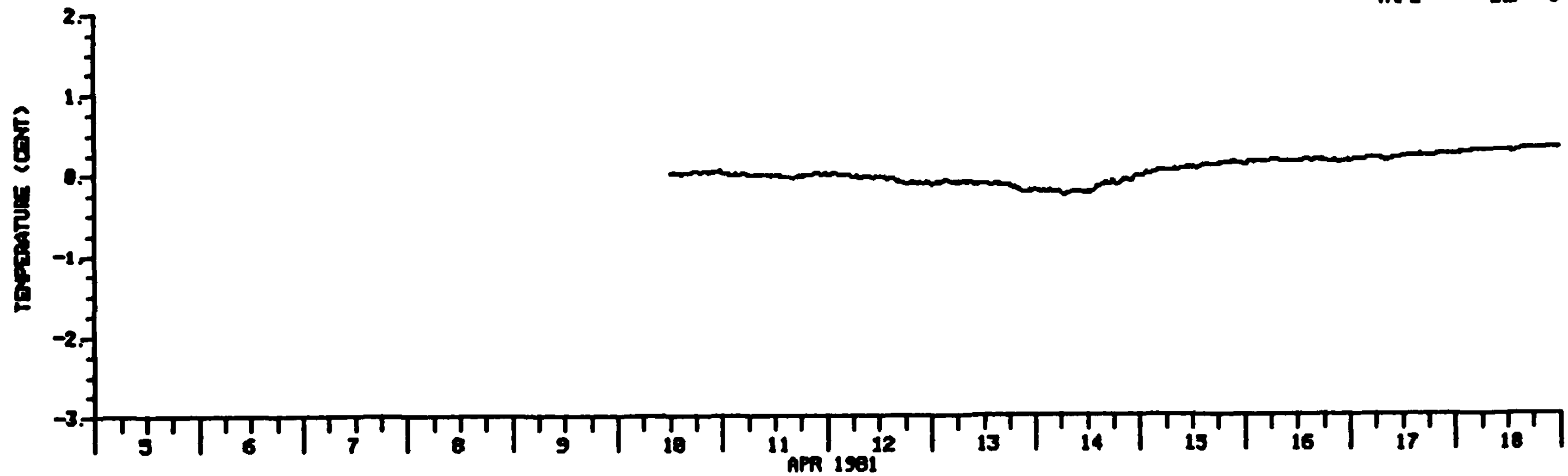

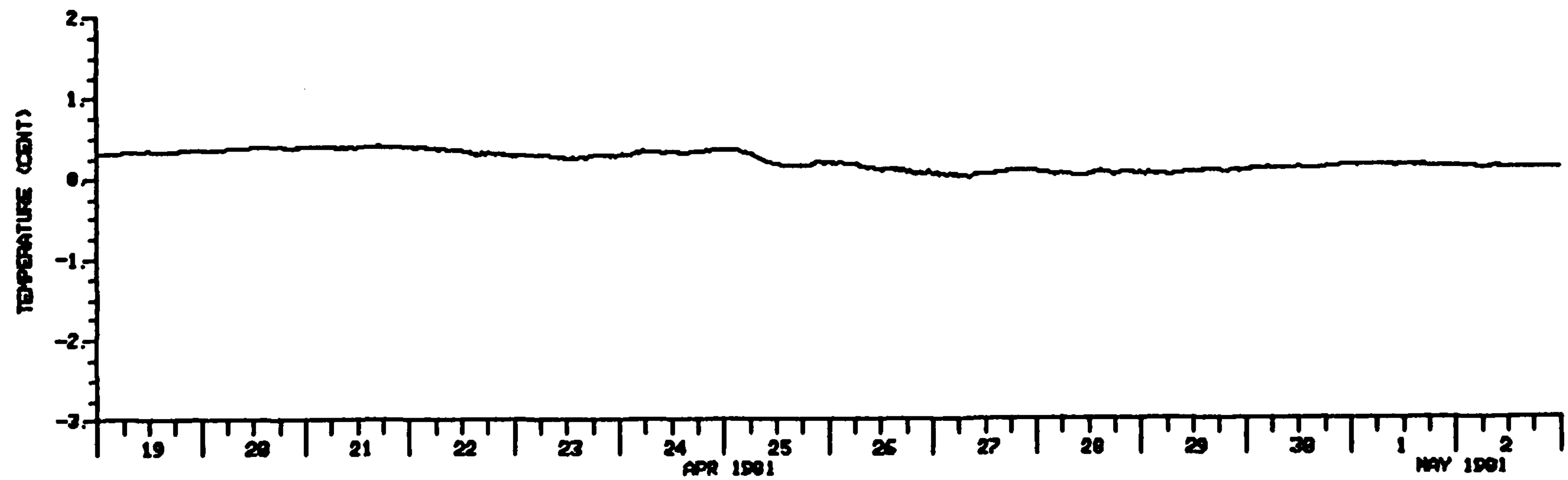

USCG BEAUFORT SEA STUDY

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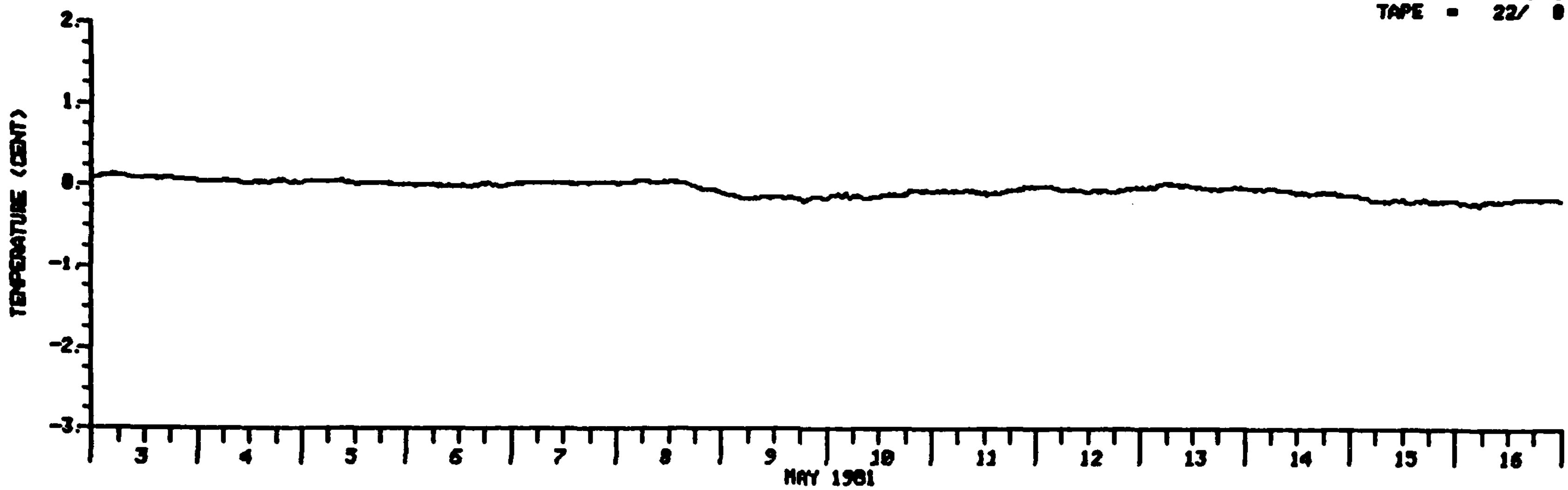
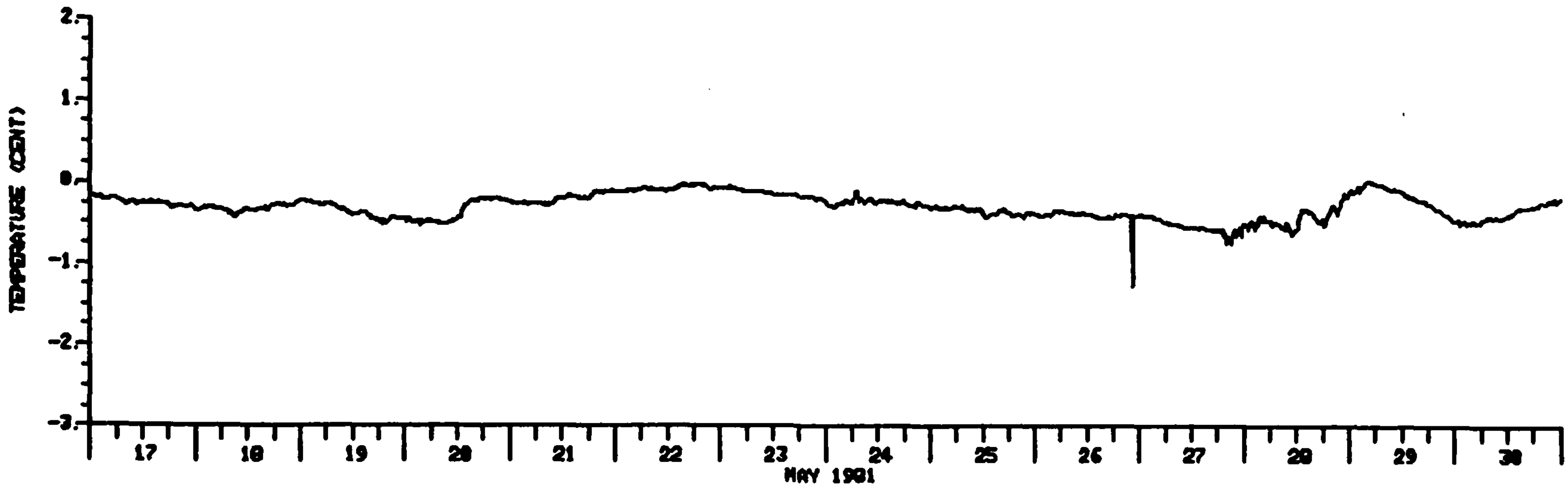
TAPE = 22/ 8





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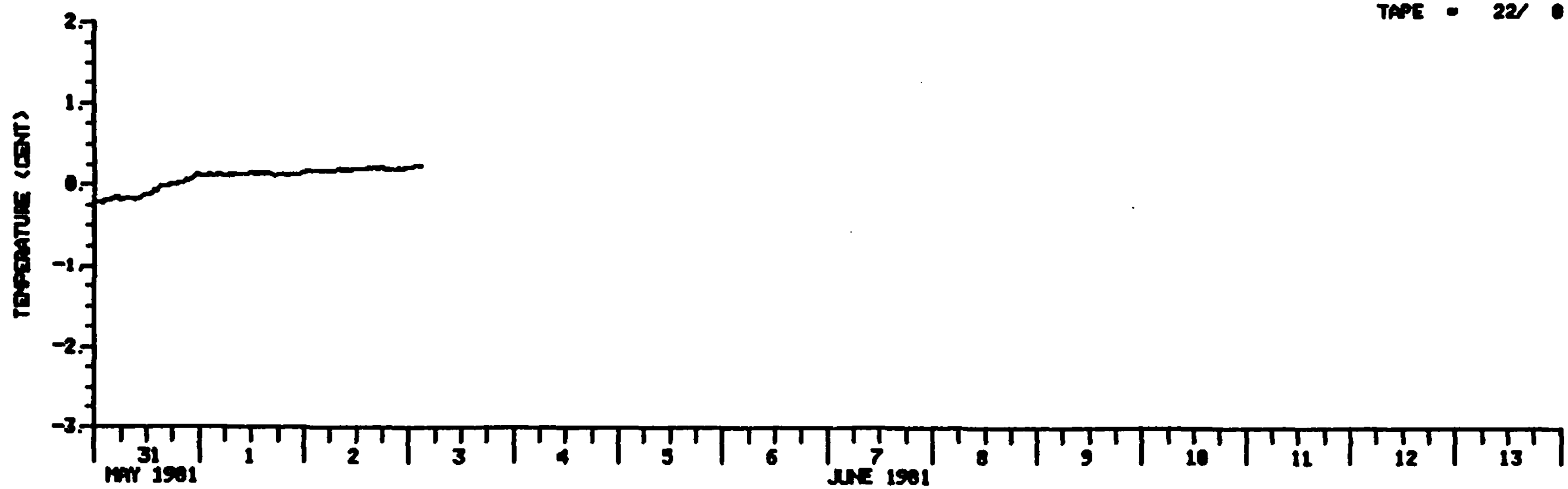

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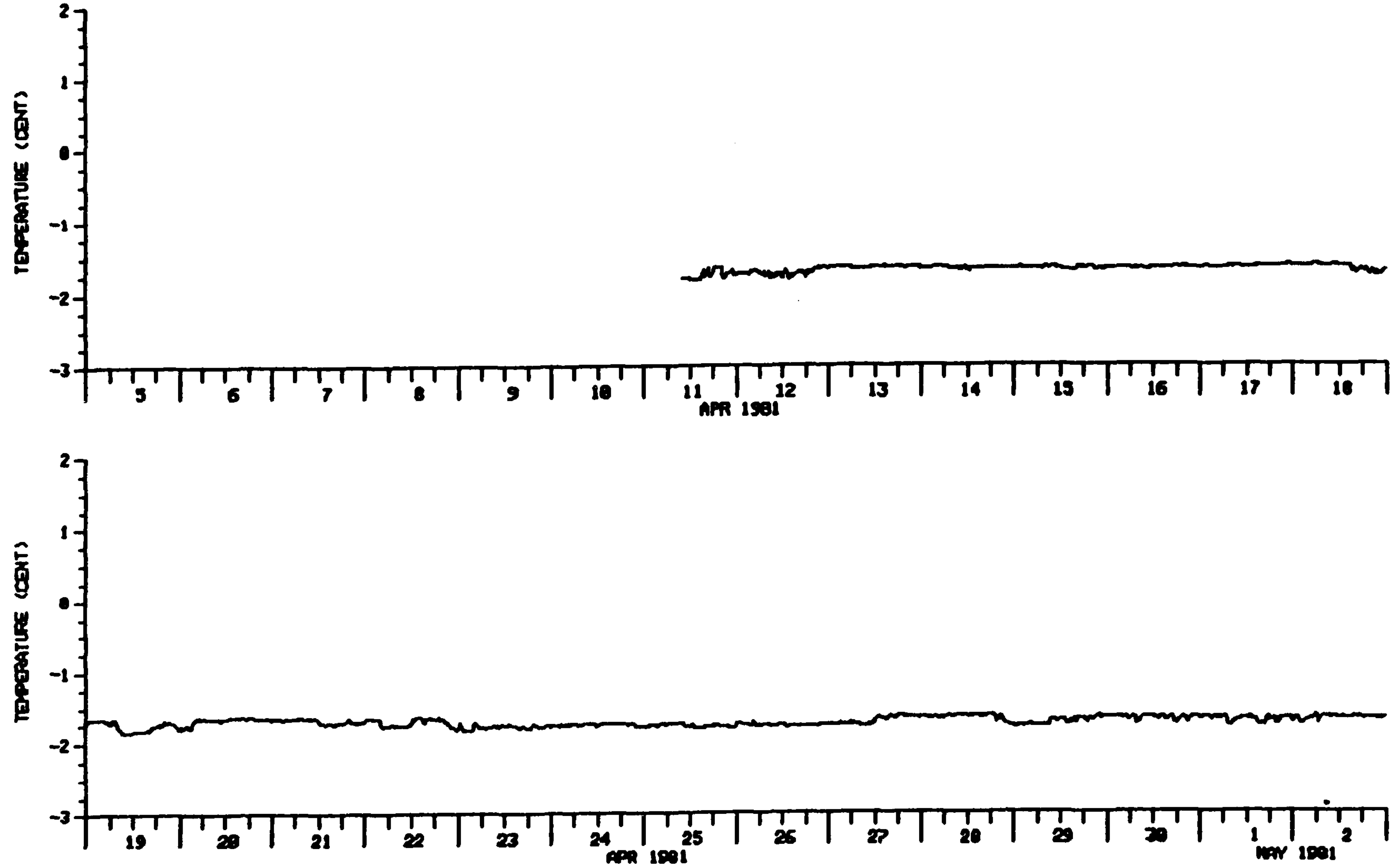

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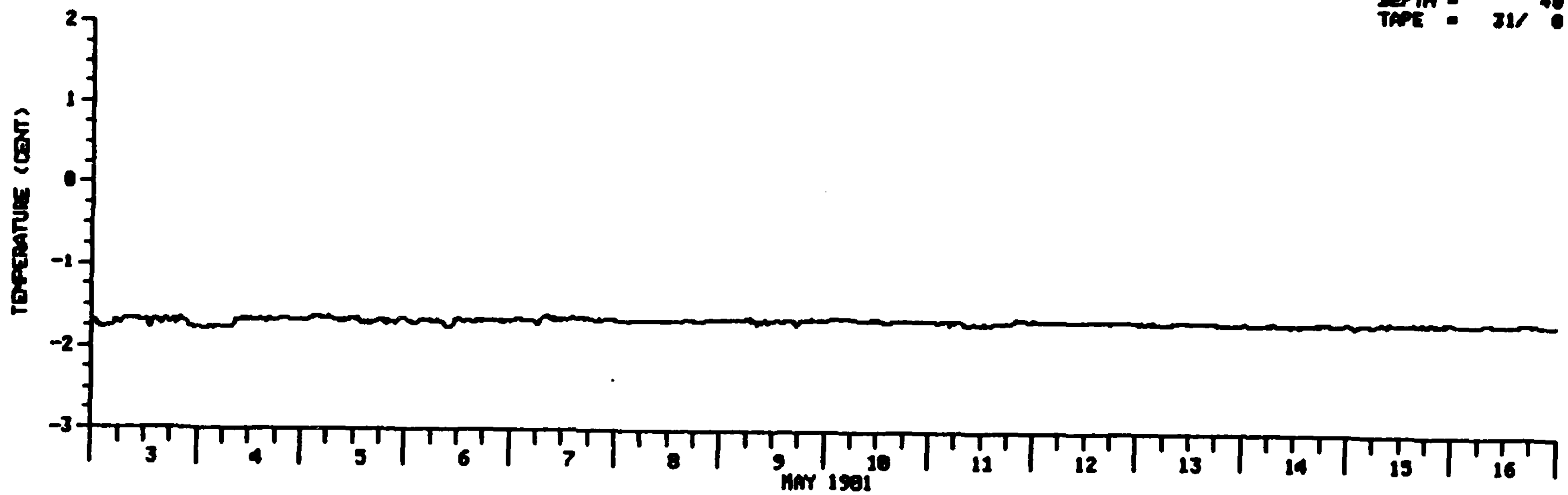

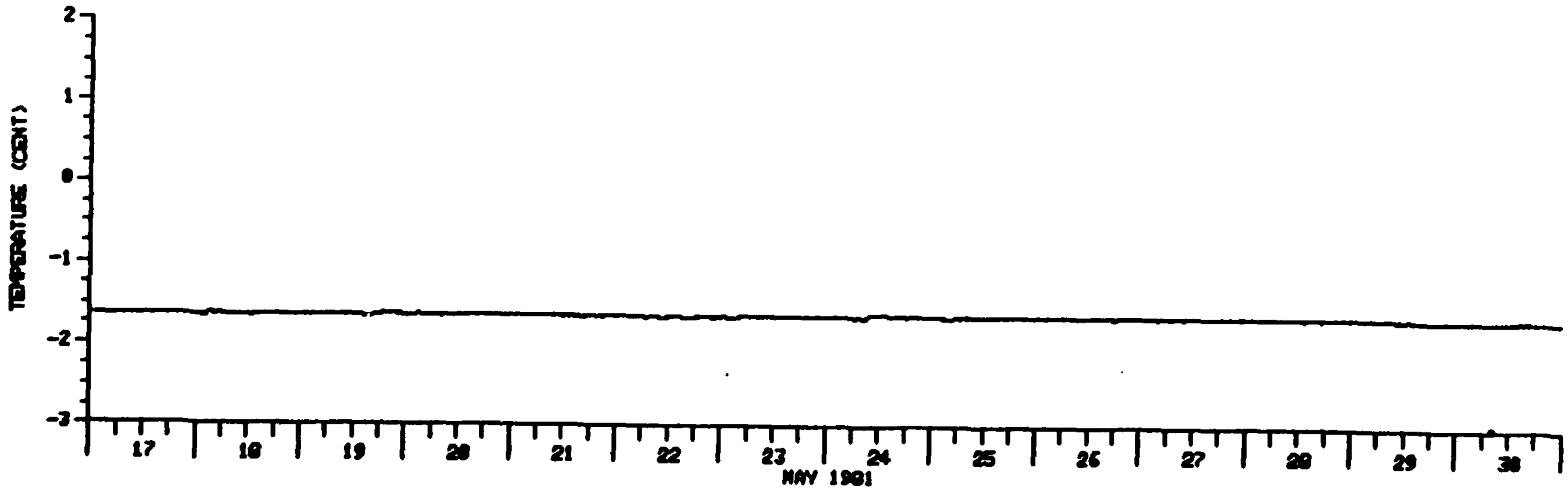

USCG BEAUFORT SEA STUDY

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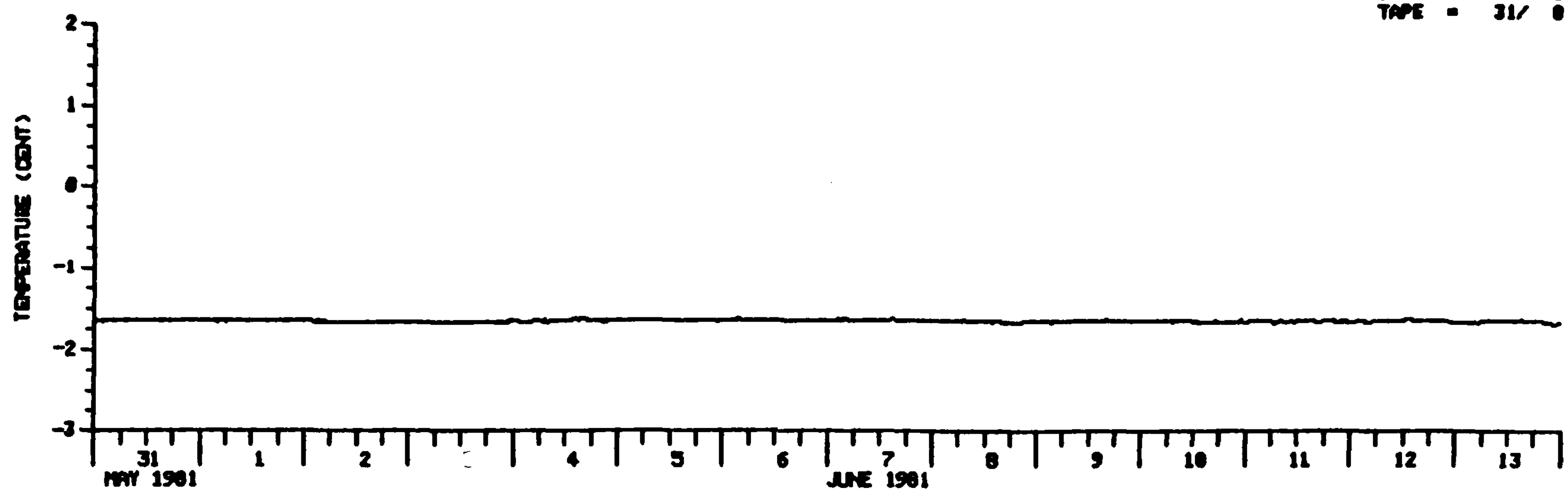

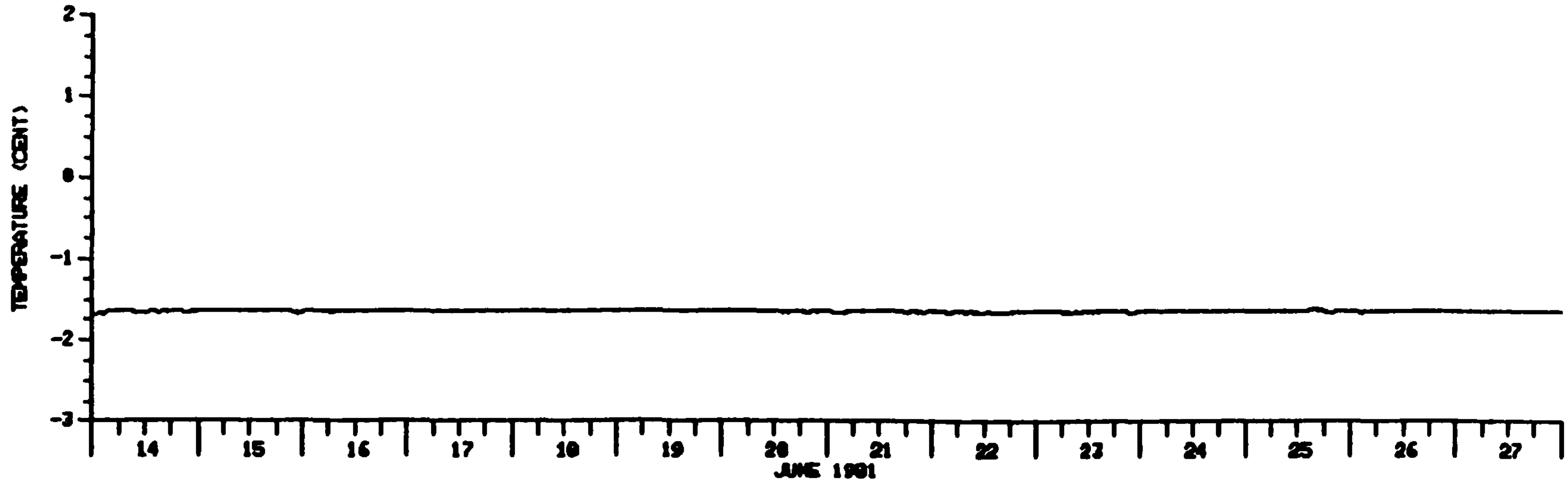

USCG BEAUFORT SEA STUDY

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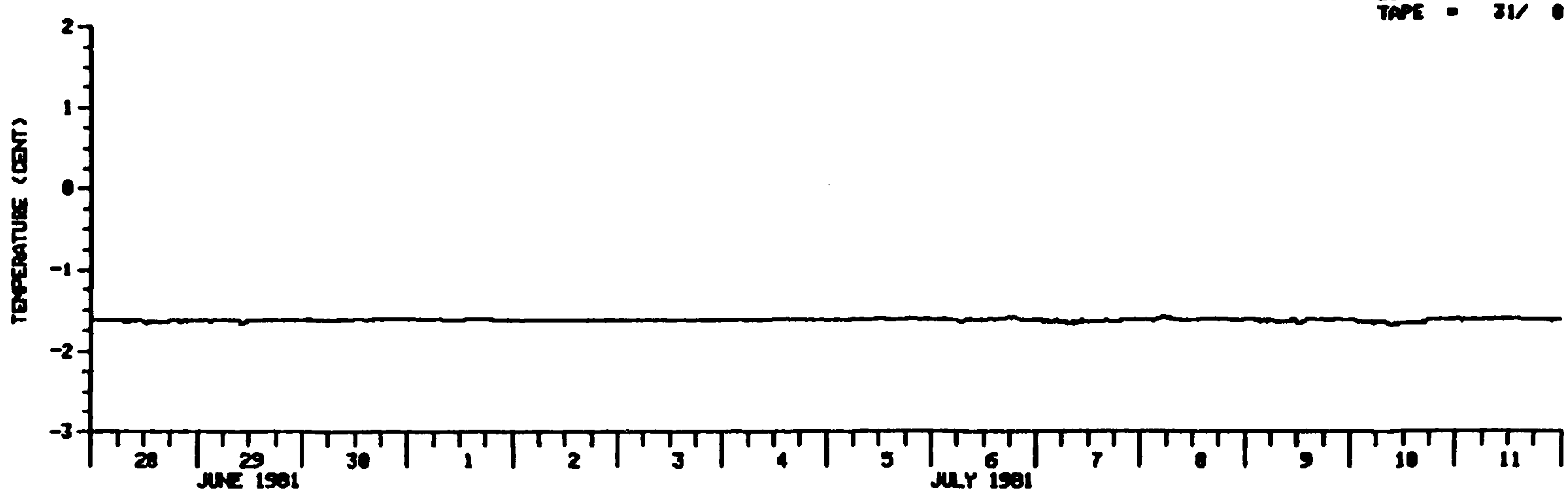

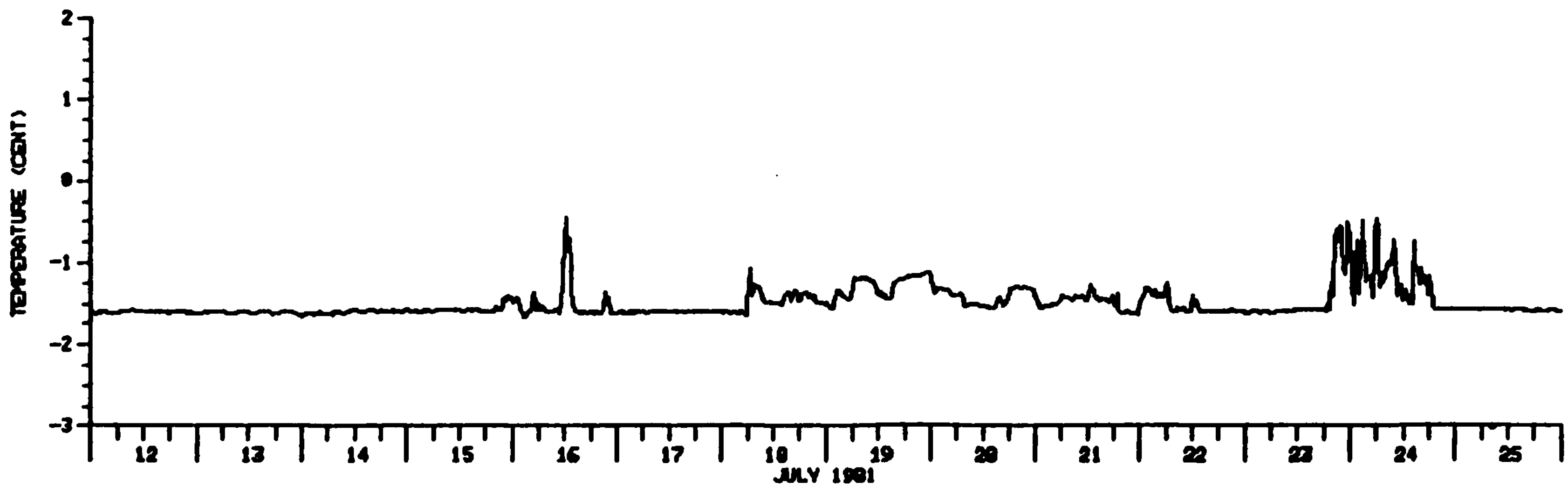

USCG BEAUFORT SEA STUDY

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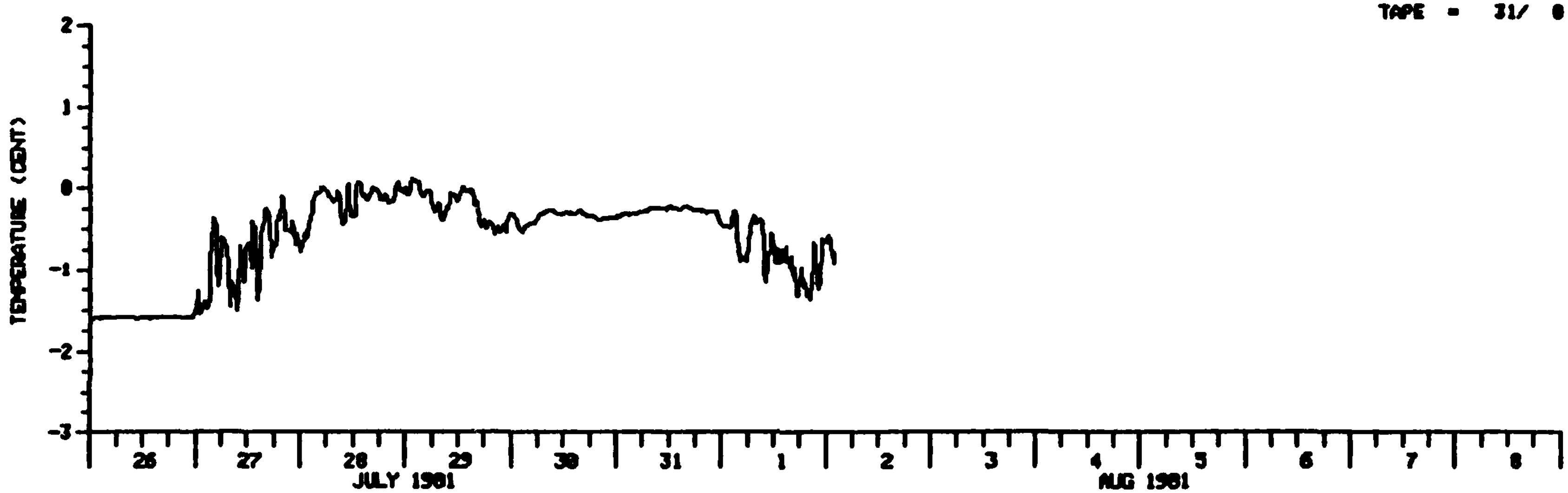
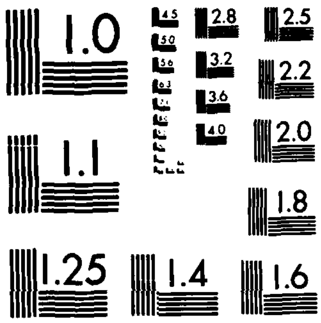


AD-A145 197 ANALYSIS AND INTERPRETATION OF CURRENT MEASUREMENTS 4/6
FROM THE BEAUFORT SEA(U) DOBROCKY SEATECH LTD SIDNEY
(BRITISH COLUMBIA) P GREISMAN ET AL. APR 84
UNCLASSIFIED USCG-D-18-84 F/G 8/3 NL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2.8
2.5
3.2
2.2
3.6
4.0
2.0
1.1
1.8
1.25
1.4
1.6

USCG BEAUFORT SEA STUDY

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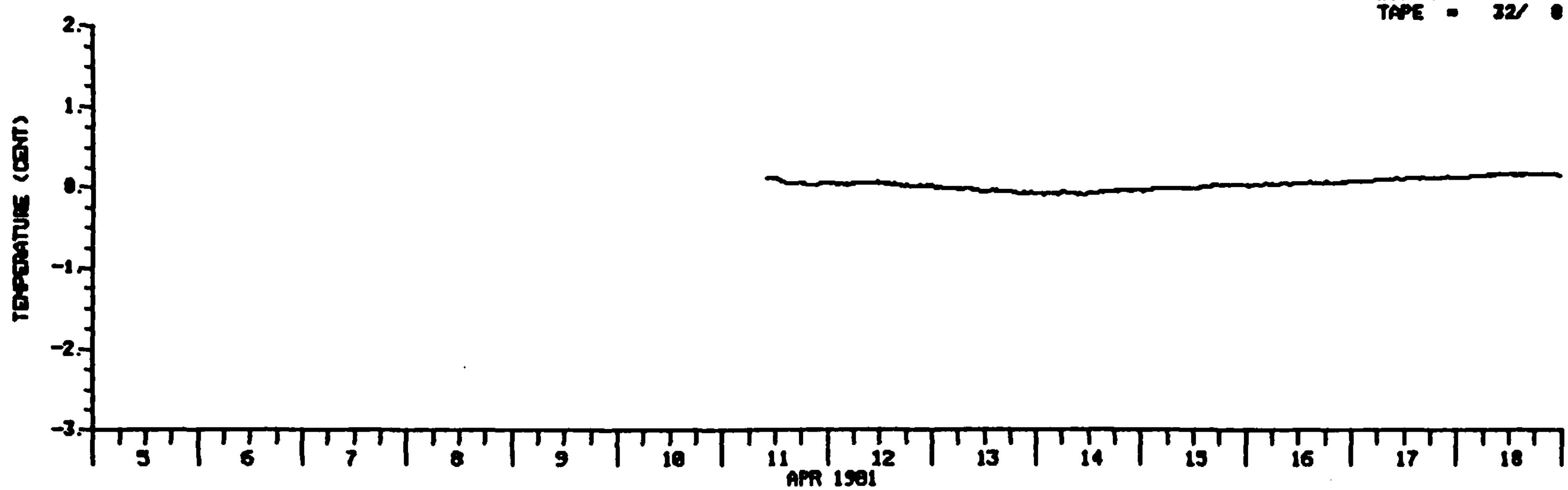

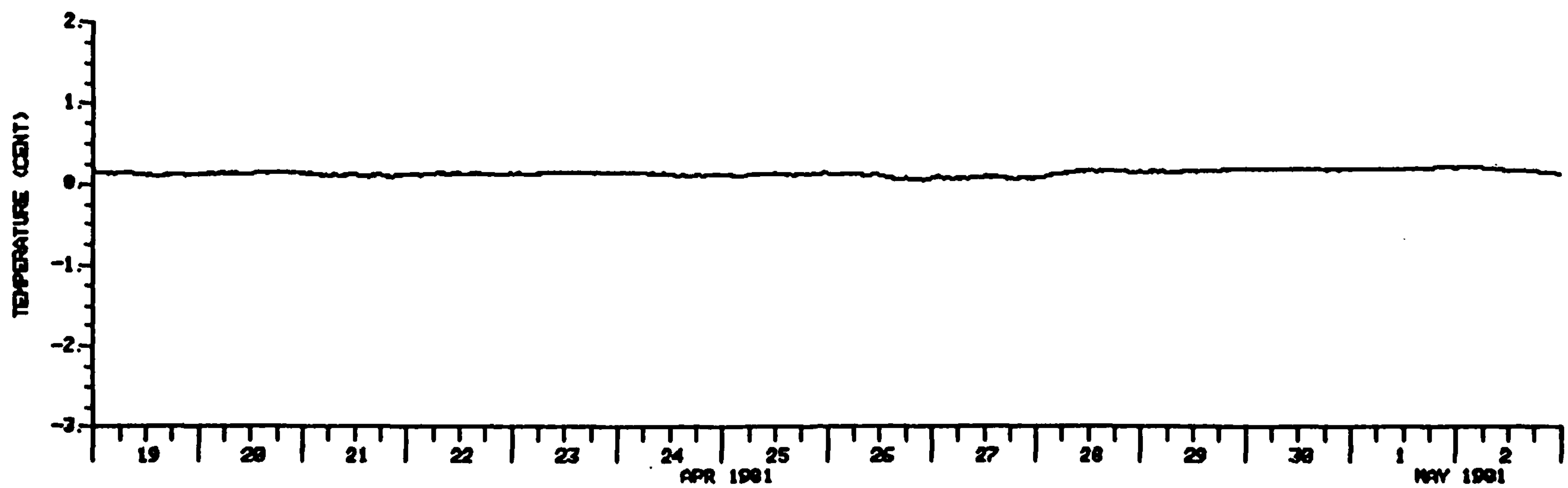

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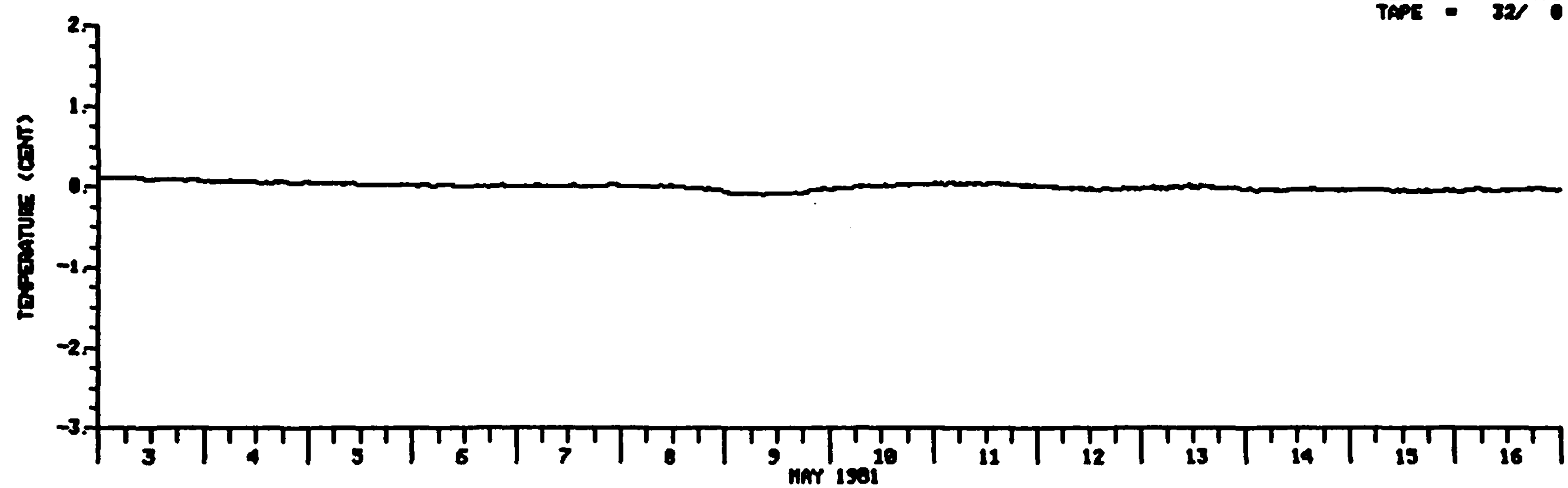

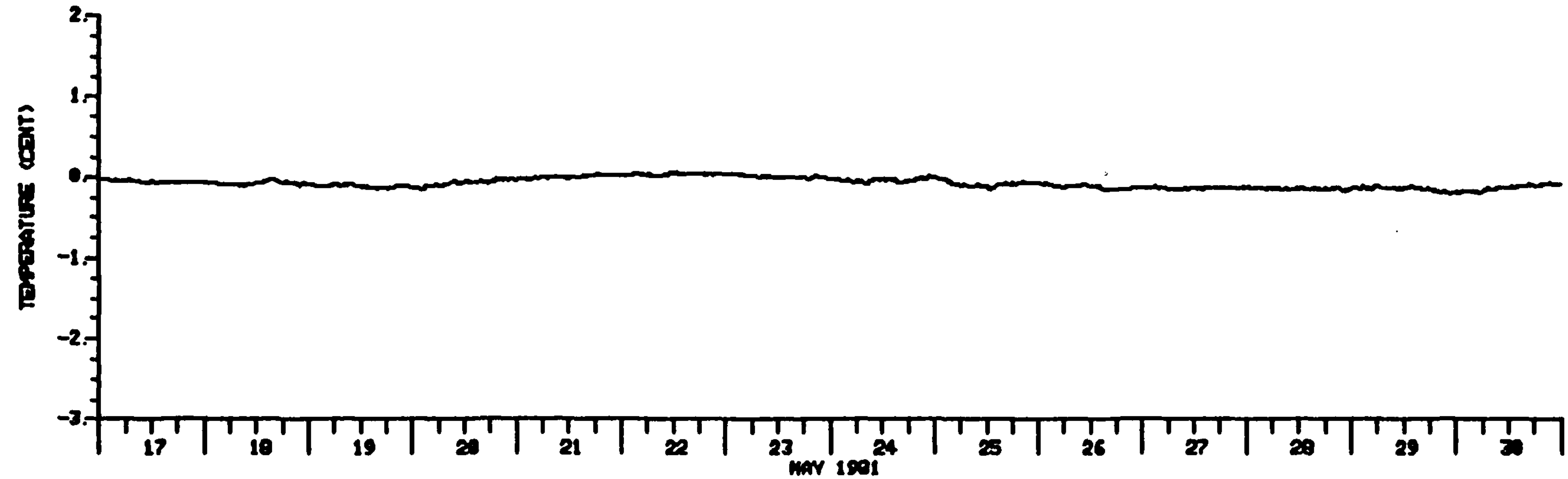

USCG BEAUFORT SEA STUDY

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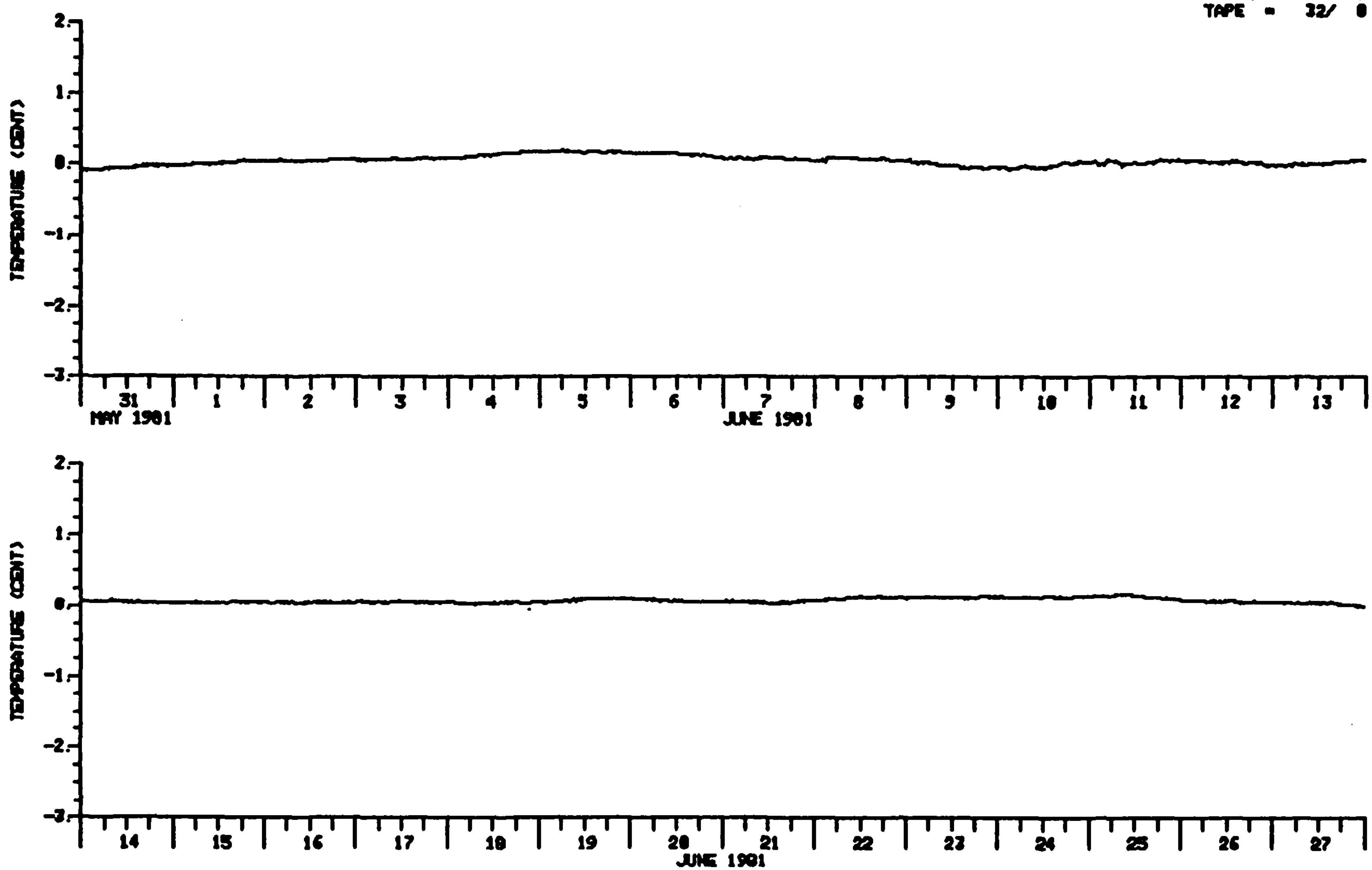

USCG BEAUFORT SEA STUDY

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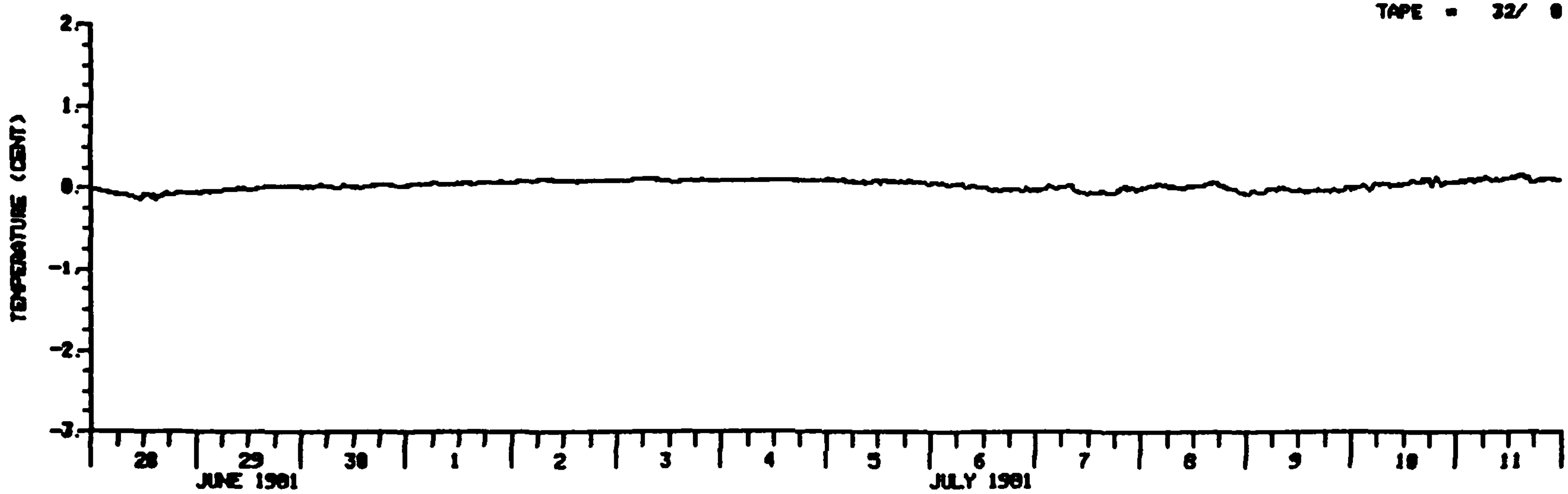

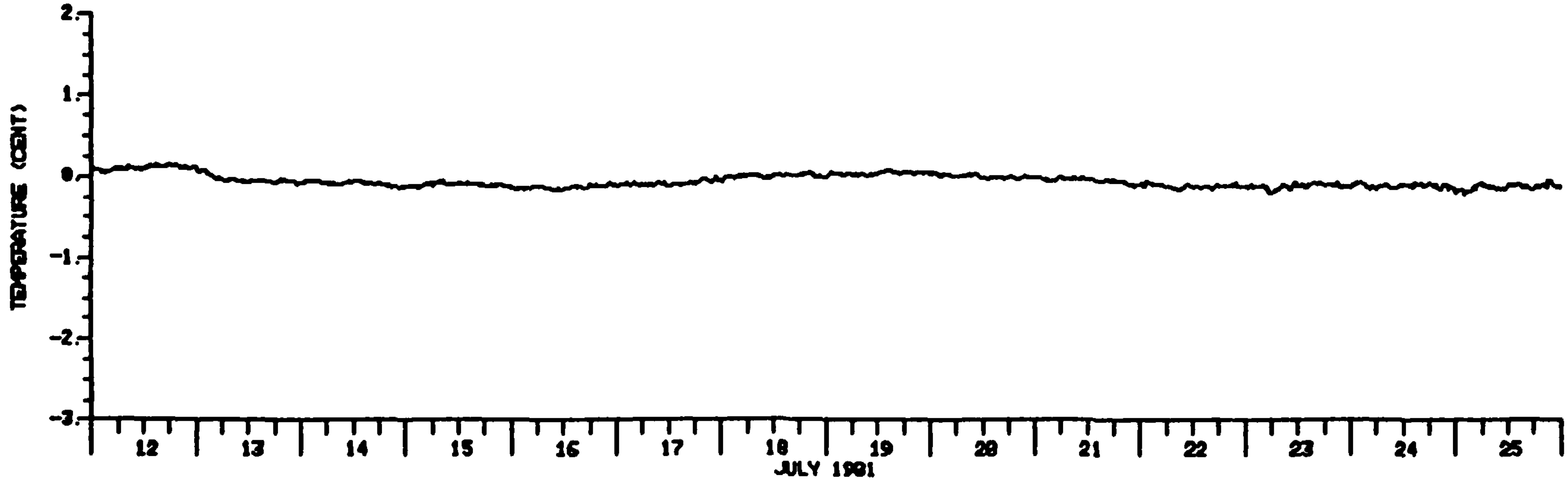

USCG BEAUFORT SEA STUDY

PAGE = 5
STNID = CG-3
DEPTH = 260
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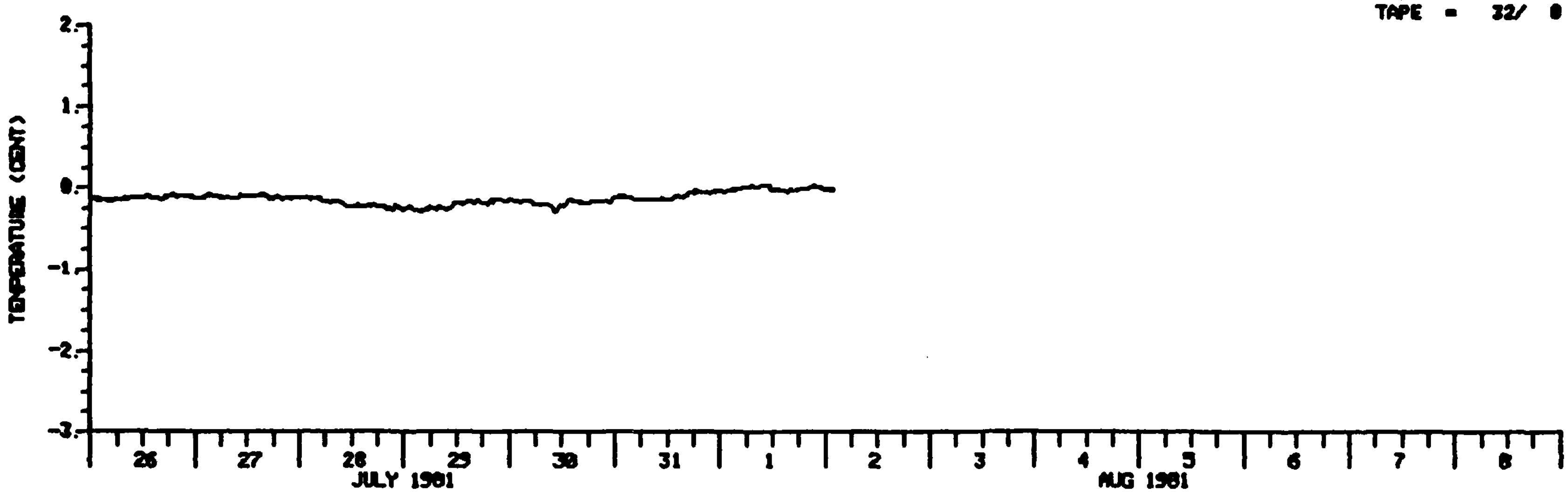

DATA APPENDIX 5

Weekly Histograms of Offshore versus Longshore Velocity Component (Longshore is 118° T, Offshore is 28° T), Histograms of Temperature versus Longshore Velocity Component and Direction versus Speed for USCG Current Meters

CG 11

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 12/ 4/81 END TIME: 23:54 18/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5										15	26	3	4		2											50
-5 TO 0									6	68	154	65	31	55	45	3										427
0 TO 5										58	47	2	11	47	23	2										190
5 TO 10														2	3											5
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	6	141	227	70	46	104	73	5	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 19/ 4/81 END TIME: 23:54 25/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5										9	9			1												19
-5 TO 0									6	100	158	86	52	70	12											484
0 TO 5									21	57	40	17		20	14											169
5 TO 10																										0
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	27	166	207	103	52	91	26	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 26/ 4/81 END TIME: 23:54 2/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5													4	6												10
-5 TO 0											3	142	164	49	1											359
0 TO 5											2	58	147	64												271
5 TO 10												1	16	15												32
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	5	201	331	134	1	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 3/ 5/81 END TIME: 23:54 9/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5																1										1
-5 TO 0													142	90	43	10	6									291
0 TO 5												10	152	150	32	9	1									354
5 TO 10													18	5	3											26
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
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FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 10/ 5/81 END TIME: 23:54 16/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5																										0
-5 TO 0														71	35	9										115
0 TO 5													17	206	214	7										444
5 TO 10													1	43	68											112
10 TO 15														1												1
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	0	18	321	317	16	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 17/ 5/81 END TIME: 23:54 23/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5											5															5
-5 TO 0										41	52	19	35	66	30											243
0 TO 5										27	64	38	78	135	48											390
5 TO 10													13	20	1											34
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
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FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

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START TIME: 0: 9 24/ 5/81 END TIME: 23:54 30/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5														4												4
-5 TO 0													7	71	79	6	1									164
0 TO 5												41	138	146	95	31	6									457
5 TO 10												3	11	12	10	10	1									47
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	44	156	233	184	47	8	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 31/ 5/81 END TIME: 23:54 6/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5										37	35	1														73
-5 TO 0										170	83	110	15													378
0 TO 5										12	83	86	33													214
5 TO 10											3		4													7
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	219	204	197	52	0	0	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 7/ 6/81 END TIME: 23:54 13/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5														10	13											23
-5 TO 0												25	185	85	6											301
0 TO 5												46	127	110	3											286
5 TO 10												2	25	34	1											62
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	73	337	239	23	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 14/ 6/81 END TIME: 23:54 20/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5												1	7	1												9
-5 TO 0												33	243	58												334
0 TO 5											1	115	134	48												298
5 TO 10												24	7													31
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	1	173	391	107	0	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 21/ 6/81 END TIME: 23:54 27/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5												1	1	1												3
-5 TO 0											8	122	73	24	5	1										233
0 TO 5											2	60	83	106	44	67	1									363
5 TO 10															10	62	1									73
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	10	183	157	131	59	130	2	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 28/ 6/81 END TIME: 23:54 4/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10														1												1
-10 TO -5													8	25	1											34
-5 TO 0												1	33	50	27	8	5									124
0 TO 5													43	138	19	38	63	4								305
5 TO 10													5	7	25	21	76	10								144
10 TO 15														1	18	24	14	4								61
15 TO 20																3										3
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	1	89	222	90	94	158	18	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 3 5/ 7/81 END TIME: 23:54 11/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10															8	5										13
-10 TO -5													3	7	10	10	13	2								45
-5 TO 0												5	12	19	25	38	57	13								169
0 TO 5												6	5	34	61	55	67	23								251
5 TO 10												4	10	28	38	42	34	7								163
10 TO 15													7	2	3	10	2	6								30
15 TO 20																	1									1
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	15	37	90	145	160	174	51	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 12/ 7/81 END TIME: 23:54 18/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10									3	12																15
-10 TO -5									8	12	6	6	1				4									37
-5 TO 0									4	5	6	13	10	12	11	17	34	10	8	5	4	6				145
0 TO 5											2	8	1	7	16	13	21	31	33	22	16	6				176
5 TO 10													8	21	21	21	27	24	33	33	16	5				209
10 TO 15													4	15	11	4	14	19	9	10	1					87
15 TO 20													1					1	1							3
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	15	29	14	27	25	55	59	55	100	85	84	70	37	17	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 19/ 7/81 END TIME: 23:54 25/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15										3	4	5														12
-15 TO -10									10	17	19	4	1													51
-10 TO -5								15	1	13	19	61	29	7	1	2										148
-5 TO 0								2	7	6	7	3	21	15	5	4	9	3	1							83
0 TO 5									2	5	1		4	2	7	22	21	29	16							109
5 TO 10														7	13	28	41	60	29	2						180
10 TO 15																14	33	39								86
15 TO 20																1		2								3
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	17	20	44	50	73	55	31	26	71	104	133	46	2	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 0: 9 26/ 7/81 END TIME: 17:54 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25										2																2
-25 TO -20									5	4	5	4														18
-20 TO -15								2	17		1	5														25
-15 TO -10							3	4	4	21	32	16	2													82
-10 TO -5							8		19	18	21	15	28	22	16											147
-5 TO 0							3	6	23				8	13	37	3	2									95
0 TO 5								2	20					9	74	50	9									164
5 TO 10									4	20			9	11	11	3										58
10 TO 15									9	20		1	13	2												45
15 TO 20											1	10	1													12
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	14	14	101	85	60	51	61	57	138	56	11	0	0	0	0	0	0	0	0	648

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND TEMPERATURE

STN : C6-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0

START TIME: 12: 9 9/ 4/81 END TIME: 17:54 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

TEMPERATURE (CENT)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-2.0 TO -1.9																										0
-1.9 TO -1.8																										0
-1.8 TO -1.7									27	135	205	185	369	300	156	13										1390
-1.7 TO -1.6									5	148	152	166	401	244	65	27	9									1217
-1.6 TO -1.5									1	314	420	799	1452	1692	997	540	500	203	88	69	36	17				7136
-1.5 TO -1.4								16	12	50	51	64	47	84	90	34	31	23	6	1	1					510
-1.4 TO -1.3								1	15	23	15	45	41	24	15	15	4	12	4							214
-1.3 TO -1.2									8	16	15	17	6	3	13	10	5	11	3							107
-1.2 TO -1.1									1	10	13	4	4	5	19	11	2	1	6							76
-1.1 TO -1.0									10	16	4	6	3		10	3	2	4	8	2						68
-1.0 TO -0.9									4	4	3		1		4		2	9	5							32
-0.9 TO -0.8									2	14	9	1					5	12	5							48
-0.8 TO -0.7								1	24	9	4						1	1	2							42
-0.7 TO -0.6							5	9	25	4	5	1					2	7	1							59
-0.6 TO -0.5							9	3	11	5	2					1	1	3	1							36
-0.5 TO -0.4								1	4	4	1	1														11
-0.4 TO -0.3									14									1	1							16
-0.3 TO -0.2									6																	6
-0.2 TO -0.1																										0
-0.1 TO 0.0																										0
0.0 TO 0.1																										0
0.1 TO 0.2																										0
0.2 TO 0.3																										0
0.3 TO 0.4																										0
0.4 TO 0.5																										0
0.5 TO 0.6																										0
0.6 TO 0.7																										0
0.7 TO 0.8																										0
0.8 TO 0.9																										0
0.9 TO 1.0																										0
	0	0	0	0	0	0	14	31	169	752	899	1289	2324	2352	1369	662	564	287	130	72	37	17	0	0	0	10960

FREQUENCY DISTRIBUTION OF SPEED AND DIRECTION

STN : CG-1 DEPTH : 40 M LAT : 70.9 N LONG : 145.9 W TAPE : 11/ 0
START TIME: 12: 9 9/ 4/81 END TIME: 17:54 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

SPEED (CM/SEC)

DIRECTION (DEG)	0 TO 4	4 TO 8	8 TO 12	12 TO 16	16 TO 20	20 TO 24	24 TO 28	28 TO 32	32 TO 36	36 TO 40	40 TO 44	44 TO 48	48 TO 52	52 TO 56	56 TO 60	60 TO 64	64 TO 68	68 TO 72	72 TO 76	76 TO 80	80 TO 84	84 TO 88	88 TO 92	92 TO 96	96 TO 100	
0 TO 10	40	19	1		1																					61
10 TO 20	39	29			3																					71
20 TO 30	40	32		3	5																					80
30 TO 40	50	33	4	4	1																					92
40 TO 50	44	43	15	10	1																					113
50 TO 60	47	63	11	9																						130
60 TO 70	40	87	40	8	1																					176
70 TO 80	55	137	76	31	20	9	1																			329
80 TO 90	63	218	106	62	30	44	13	10	1																	547
90 TO 100	68	280	238	159	82	96	98	69	8	2																1100
100 TO 110	80	311	344	227	166	131	92	77	52	33	9	5														1527
110 TO 120	79	255	309	194	115	122	68	52	36	26	22	16	1													1295
120 TO 130	96	236	217	110	57	75	38	3			1	5														838
130 TO 140	88	183	128	53	20	17	8																			497
140 TO 150	80	190	87	28	6	1																				392
150 TO 160	82	130	40	21	4	3																				280
160 TO 170	74	88	15	2	4	1																				184
170 TO 180	45	37	15	3																						100
180 TO 190	50	24	7																							81
190 TO 200	32	23	2																							57
200 TO 210	39	20	28																							87
210 TO 220	33	37	18	8	4	5																				105
220 TO 230	29	18	7	12	5	4																				75
230 TO 240	37	16	7	13	3	2	3	2																		83
240 TO 250	49	16	9	21	23		2	2																		122
250 TO 260	62	53	32	48	16	2	17	2																		232
260 TO 270	50	57	76	41	35	7	5																			271
270 TO 280	63	85	101	91	17	13	1	6																		377
280 TO 290	58	110	178	108	7	6	3	4																		474
290 TO 300	55	72	161	102	35	5	4																			434
300 TO 310	39	72	126	58	21																					316
310 TO 320	34	45	47	10	4																					140
320 TO 330	34	43	13	5	4																					99
330 TO 340	22	41	4	14	17	1																				99
340 TO 350	25	15		10	1																					51
350 TO 360	36	17																								53
	1857	3135	2462	1465	708	544	353	227	97	61	32	26	1	0	0	0	0	0	0	0	0	0	0	0	0	10968

CG 12

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-1   DEPTH : 150 M   LAT : 70.9 N   LONG : 145.9 W   TAPE : 12/ 0

START TIME: 0:10 12/ 4/81   END TIME: 23:55 18/ 4/81   SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5									1	51	33	32	9													126
-5 TO 0									8	94	107	61	13	28	10	31	4		4							360
0 TO 5									12	17	6				24	22	21	6	11	1						120
5 TO 10															3				5	1						9
10 TO 15															9		1	2	3	3						18
15 TO 20														4	15	7	3	2	3							34
20 TO 25															1	4										5
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	21	162	146	93	22	32	62	64	29	10	26	5	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 19/ 4/81 END TIME: 23:55 25/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10							5	19	2																	26
-10 TO -5							52	88	59	77	15	3	7													301
-5 TO 0							27	76	74	107	20	4	5	6	11											330
0 TO 5							5		4						6											15
5 TO 10																										0
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	89	183	139	184	35	7	12	6	17	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 26/ 4/81 END TIME: 23:55 2/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5																12	14									26
-5 TO 0												2	25	26	10	31	38	12								144
0 TO 5												62	118	165	28	7		5								385
5 TO 10													13	7	25	3	1	9	1							59
10 TO 15													2	10		18	15	11	1							57
15 TO 20																		1								1
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	64	158	208	63	71	68	38	2	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 3/ 5/81 END TIME: 23:55 9/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5																12										12
-5 TO 0												40	86	134	23	34	30	4								351
0 TO 5												2	35	87	109	34	14									281
5 TO 10																22										22
10 TO 15																6										6
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	42	121	221	132	108	44	4	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 10/ 5/81 END TIME: 23:55 16/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5														5	12	8	8	3								36
-5 TO 0														13	21	15	26	43								118
0 TO 5													11	49	14	12	56	23								165
5 TO 10													21	56	35	46	40	44	6							248
10 TO 15																26	16	58	4							104
15 TO 20																1										1
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	0	32	123	82	108	146	171	10	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 17/ 5/81 END TIME: 23:55 23/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5										1				3	17	14	8									43
-5 TO 0								3	51	40	15	15	6	25	32		5									192
0 TO 5									76	34	25	1	59	66	17	17	1									296
5 TO 10										6	10	11	33	24	33											117
10 TO 15													19	5												24
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	3	127	81	50	27	117	123	99	31	14	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 24/ 5/81 END TIME: 23:55 30/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5													10	15	1		3									29
-5 TO 0											1	18	18	21	8	12	60	27	6							171
0 TO 5											8	13	13	108	45	10	49	87	20	1						354
5 TO 10												1	8	10	10	4	3	29	10							75
10 TO 15													13	17		5	6	1	1							43
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	9	32	62	171	64	31	121	144	37	1	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 31/ 5/81 END TIME: 23:55 6/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10									19																	19
-10 TO -5								21	52	75	14															162
-5 TO 0						1	7	40	10	122	73	55														308
0 TO 5						6	9	5	20	26	15	79	4													164
5 TO 10										13	6															19
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	7	16	66	101	236	108	134	4	0	0	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 7/ 6/81 END TIME: 23:55 13/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15														7												7
-15 TO -10														21		3	3									27
-10 TO -5												1	3	28	4	16	4									56
-5 TO 0											44	32	59	41	37	16										229
0 TO 5											5	15	6	63	73	41										203
5 TO 10											6	7	4	8	36	13										74
10 TO 15											3	9	1	15	19	8										55
15 TO 20														3	9	6										18
20 TO 25																3										3
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	58	64	73	186	178	106	7	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 14/ 6/81 END TIME: 23:55 20/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5																										0
-5 TO 0												2	1													3
0 TO 5												42	82	42	226	57										449
5 TO 10												17	5	8	72	16										118
10 TO 15															25	36	2									63
15 TO 20															6	25	8									39
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	61	88	50	329	134	10	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 21/ 6/81 END TIME: 23:55 27/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5																										0
-5 TO 0																2										2
0 TO 5												5	33	191	14	34	33	1	1							312
5 TO 10												24	114	40	38	1	83	30	26							356
10 TO 15													2													2
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	29	149	231	52	37	116	31	27	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 28/ 6/81 END TIME: 23:55 4/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																	6									6
-10 TO -5																	5	6	2		1					14
-5 TO 0														10	47	25	10	13	19	2	4	2	2			134
0 TO 5														5	86	30	6	10	10	20	6	43	4			220
5 TO 10															49	18	17	12	21	17	20	24	6			184
10 TO 15																7	12	8	14	22	6	5				74
15 TO 20																	2	10	13	6						31
20 TO 25																		7	2							9
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	0	0	15	182	80	58	66	81	67	37	74	12	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 5/ 7/81 END TIME: 23:55 11/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																	1	3								4
-15 TO -10																1	15	9								25
-10 TO -5														1	2	4	5	10								22
-5 TO 0												3	8	5	19	31	13	11	11	6						107
0 TO 5											3	50	10		39	19	4	21	22	10	5					183
5 TO 10												50	18	6	31	21	33	27	53	4						243
10 TO 15												7	2	10	1	22	2	12	19	4						79
15 TO 20																		2	4	3						9
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	3	110	38	22	92	98	73	95	109	27	5	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 12/ 7/81 END TIME: 23:55 18/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10										11	4				6	6		7								34
-10 TO -5									11	23	4	7		5	1	2	9	1	1							64
-5 TO 0									2	28	23	6	23	3	3	11	16	14	2	9		9				149
0 TO 5												23	18	5	15	8	7	5	27	7	29	8				152
5 TO 10												7			9	2	3	8	18	32	43	21				143
10 TO 15															3	3	15	10	4	10	18	22	3			88
15 TO 20																	2	4	2	12	14	4				38
20 TO 25																			2	1	1					4
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	13	62	31	43	41	13	37	32	52	49	56	71	105	64	3	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 19/ 7/81 END TIME: 23:55 25/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10									22	5	15															42
-10 TO -5									37	22	27	20						4	2							112
-5 TO 0									7	1	4	61	6		1	5		11	5	23	3					127
0 TO 5												2	28	14	25	33	16	30	16	4	13					181
5 TO 10																	10	12	41	17	42					122
10 TO 15																		11	20	2	13	4	3			53
15 TO 20																		4	5	3	3	7	4			26
20 TO 25																		2	3							5
25 TO 30																		3	1							4
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	66	28	46	83	34	14	26	38	26	77	93	49	74	11	7	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 0:10 26/ 7/81 END TIME: 17:55 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10								3	5	12	19	2														41
-10 TO -5						10	40	30	17	44	35	34	17	14	2											243
-5 TO 0						6		19	9	8			1	16	18	2										79
0 TO 5							3	15	8				13	12	88	16	9	9								173
5 TO 10							4						2	8	22	5	17									58
10 TO 15							[illegible]	6					5	2												17
15 TO 20							11	16	3	2	2	1		2												37
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	16	62	89	42	66	56	37	38	54	130	23	26	9	0	0	0	0	0	0	0	648

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND TEMPERATURE

STN : CG-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 12:10 9/ 4/81 END TIME: 17:55 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

TEMPERATURE (CENT)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-2.0 TO -1.9																										0
-1.9 TO -1.8																										0
-1.8 TO -1.7								2	11	21	4	15	43	36	76	70	111	5	6	1						401
-1.7 TO -1.6						7	17	67	221	405	313	410	426	729	904	506	385	351	203	88	43	74	12			5161
-1.6 TO -1.5							62	167	139	219	120	298	432	645	473	303	198	237	142	58	86	35	3			3617
-1.5 TO -1.4							26	16	31	38	14	1	6	48	70	38	63	20	19	32	31	22				475
-1.4 TO -1.3											2	2			5	1	1	4	11	6	12	7				51
-1.3 TO -1.2											1	1		1	7	2		6	4	8	23		2			55
-1.2 TO -1.1												11	7	3	6	5	12	10	1	3	6	2	1			67
-1.1 TO -1.0								1		4	5	10		1	9	10		8	7	10	16	1	2			84
-1.0 TO -0.9								4	9	6	13	13	11	9	9	8	2	3	4	13	12	7	1			124
-0.9 TO -0.8						1	2	5	2	4	5	27	14	11	3	5	12	11	7	12	10	1	1			133
-0.8 TO -0.7						11	8	3	2	3	2	27	10	3		5	2	14	24	5	8					127
-0.7 TO -0.6						3	8	11	9	21	14	2	8	4	8	4	1	19	16	2	1					131
-0.6 TO -0.5						1	12	30	44	68	19	35	32	11	1	2	4	6	2							267
-0.5 TO -0.4							6	7	41	33	13	8	14	4	1	1	1	6		1						136
-0.4 TO -0.3							8	23	7	7	3					3	2	1								54
-0.3 TO -0.2							13	5	7	9	7				1	3	1	1	1							48
-0.2 TO -0.1							4			1	9					2	1	2	2							21
-0.1 TO 0.0							1				5						2	1								9
0.0 TO 0.1											5															5
0.1 TO 0.2											1															1
0.2 TO 0.3																1										1
0.3 TO 0.4																										0
0.4 TO 0.5																										0
0.5 TO 0.6																										0
0.6 TO 0.7																										0
0.7 TO 0.8																										0
0.8 TO 0.9																										0
0.9 TO 1.0																										0
	0	0	0	0	0	23	167	341	523	839	555	860	1003	1505	1573	969	798	705	449	239	248	149	22	0	0	10968

FREQUENCY DISTRIBUTION OF SPEED AND DIRECTION

STN : C6-1 DEPTH : 150 M LAT : 70.9 N LONG : 145.9 W TAPE : 12/ 0

START TIME: 12:10 9/ 4/81 END TIME: 17:55 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

SPEED (CM/SEC)

DIRECTION (DEG)	0 TO 4	4 TO 8	8 TO 12	12 TO 16	16 TO 20	20 TO 24	24 TO 28	28 TO 32	32 TO 36	36 TO 40	40 TO 44	44 TO 48	48 TO 52	52 TO 56	56 TO 60	60 TO 64	64 TO 68	68 TO 72	72 TO 76	76 TO 80	80 TO 84	84 TO 88	88 TO 92	92 TO 96	96 TO 100	
0 TO 10	25	37	10	4	2																					78
10 TO 20	22	37	18	3																						80
20 TO 30	16	37	16																							69
30 TO 40	12	42	27	9																						90
40 TO 50	22	58	36	12	1																					129
50 TO 60	24	57	27	27	10	1																				146
60 TO 70	39	43	23	25	18	15	11	1																		175
70 TO 80	42	88	35	28	32	45	27	1	5	4	1															308
80 TO 90	27	132	113	123	57	92	51	16	27	19	2															659
90 TO 100	23	140	230	288	88	102	59	114	57	34	23	18	10	1												1187
100 TO 110	24	128	269	434	118	162	134	160	150	88	93	69	37	9												1875
110 TO 120	10	99	183	158	183	156	166	106	94	37	75	78	26													1371
120 TO 130	23	127	113	89	99	112	108	53	24	28	14	6	1													797
130 TO 140	15	103	48	62	63	46	29	25	3	1																395
140 TO 150	11	39	28	21	11	25	22	12	3																	172
150 TO 160	13	19	27	20	7	4	3	1																		94
160 TO 170	10	41	23	14	1																					89
170 TO 180	11	32	18	19	4																					84
180 TO 190	12	10	1	4	8																					35
190 TO 200	7	13	2																							22
200 TO 210	9	14	3																							26
210 TO 220	15	25	22																							62
220 TO 230	40	27	2																							69
230 TO 240	21	23	18	4																						66
240 TO 250	21	37	25	29	3	2	2																			119
250 TO 260	12	35	17	58	11	10																				143
260 TO 270	16	21	82	109	74	26	3	5																		336
270 TO 280	18	36	148	195	108	69	36	5																		615
280 TO 290	21	54	136	160	67	122	124	39																		723
290 TO 300	17	42	52	69	104	50	25	20																		379
300 TO 310	15	26	18	47	63	13	11	10																		203
310 TO 320	9	10	6	35	11			2																		73
320 TO 330	26	7	1	11	1		5	6																		57
330 TO 340	25	31	7	6			7	21																		97
340 TO 350	28	31	6	2		2																				69
350 TO 360	21	40	13	1		1																				76
	702	1741	1803	2066	1144	1055	823	597	363	211	208	171	74	10	0	0	0	0	0	0	0	0	0	0	0	10968

CG 21

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 12/ 4/81 END TIME: 23:52 18/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5										4		4	11	30	32											81
-5 TO 0									8	128	100	46	7	43	75	4										411
0 TO 5									1	131	34	2		3	7	2										180
5 TO 10																										0
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	9	263	134	52	18	76	114	6	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 19/ 4/81 END TIME: 23:52 25/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5									3	2	2															7
-5 TO 0									7	116	74	55	56	16												324
0 TO 5									22	140	73	13	23	19												290
5 TO 10										11	36			1												48
10 TO 15											3															3
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	32	269	188	68	79	36	0	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 26/ 4/81 END TIME: 23:52 2/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5													1	10												11
-5 TO 0												26	137	80												243
0 TO 5												94	261	52												407
5 TO 10													8	3												11
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	120	407	145	0	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 3/ 5/81 END TIME: 23:52 9/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5												28	35	43	3											109
-5 TO 0											7	126	138	131	45	7										454
0 TO 5												7	9	51	40	2										109
5 TO 10																										0
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	7	161	182	225	88	9	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 10/ 5/81 END TIME: 23:52 16/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5																										0
-5 TO 0													9	78	73	12										172
0 TO 5													4	79	158	138	25									404
5 TO 10															11	52	21									84
10 TO 15																9	3									12
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	0	13	157	242	211	49	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 17/ 5/81 END TIME: 23:52 23/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5															2											2
-5 TO 0												9	27	29	71	24										160
0 TO 5											3	56	80	71	178	20										408
5 TO 10											1	20	36	8	36	1										102
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	4	85	143	108	287	45	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 24/ 5/81 END TIME: 23:52 30/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5														5	22											27
-5 TO 0													18	65	125	27	11									246
0 TO 5													128	180	48	23										379
5 TO 10													1	19												20
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	0	147	269	195	50	11	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 31/ 5/81 END TIME: 23:52 6/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5												20														20
-5 TO 0									8	70	72	87	25													262
0 TO 5									41	74	59	100	88													362
5 TO 10											5	21														26
10 TO 15												2														2
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	49	144	136	230	113	0	0	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 7/ 6/81 END TIME: 23:52 13/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5													1	23												24
-5 TO 0												26	111	114	43	5										299
0 TO 5												33	89	87	59	14										282
5 TO 10														58	9											67
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	59	201	282	111	19	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 14/ 6/81 END TIME: 23:52 20/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5												4	129	40												173
-5 TO 0												21	184	77												282
0 TO 5												3	34	129	13											179
5 TO 10													3	33	2											38
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	28	350	279	15	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 21/ 6/81 END TIME: 23:52 27/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5											14	54	10			28										106
-5 TO 0											31	132	138	10	42	68										421
0 TO 5												1	34	33	67	10										145
5 TO 10																										0
10 TO 15																										0
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	45	187	182	43	109	106	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 28/ 6/81 END TIME: 23:52 4/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5													9	12		5	4	3	8	3						44
-5 TO 0												5	84	72	34	21	36	28	22	46	4					352
0 TO 5													73	105	7	11	15	15	26	3						255
5 TO 10																4	3	1	11							19
10 TO 15																			2							2
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	5	166	189	41	41	58	47	69	52	4	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 5/ 7/81 END TIME: 23:52 11/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																2	3									5
-10 TO -5														4	17	38	52	7								118
-5 TO 0														31	107	75	60	18								291
0 TO 5													22	4	29	69	45	2								171
5 TO 10													2	3	1	9	13	10	2							40
10 TO 15																13	23	3	1							40
15 TO 20																2	5									7
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	0	24	42	154	208	201	40	3	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 12/ 7/81 END TIME: 23:52 18/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																				6						6
-20 TO -15																		1	1	4						6
-15 TO -10																		4	7	1						12
-10 TO -5																			16	38	4					58
-5 TO 0													5	1		2	17	1	34	80	22					162
0 TO 5													14	20	21	21	21	4	44	38	54	6	13	2		258
5 TO 10												4	4	5	5	12	2	15	32	12	25	9	4			129
10 TO 15																		2	11	3						16
15 TO 20																				11	5					16
20 TO 25																				5	4					9
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	0	0	0	4	23	26	26	35	40	27	145	198	114	15	17	2	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 19/ 7/81 END TIME: 23:52 25/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20																										0
-20 TO -15																										0
-15 TO -10																										0
-10 TO -5										5	53						6	3	2							69
-5 TO 0										17	17					2	35	32	32							135
0 TO 5									2	38	39	18				7	22	77	90	11	3					307
5 TO 10											14	22	1		15	25	18	14	7							116
10 TO 15												7	12	6	19		1									45
15 TO 20																										0
20 TO 25																										0
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	2	60	123	47	13	6	34	34	82	126	131	11	3	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 0: 7 26/ 7/81 END TIME: 22:52 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-60 TO -55																										0
-55 TO -50																										0
-50 TO -45																										0
-45 TO -40																										0
-40 TO -35																										0
-35 TO -30																										0
-30 TO -25																										0
-25 TO -20									5	13	1															19
-20 TO -15										22	18	1														41
-15 TO -10										14	50	28	47	16	4											159
-10 TO -5										9	23	22	24	17	27	19	1									142
-5 TO 0										7	33	17			1	14	3									75
0 TO 5									2	22				5	4	2										35
5 TO 10										15	20		7	3		1	6									52
10 TO 15										16	3	2	1			5	22									49
15 TO 20									23	35	4	1				1	4	9								77
20 TO 25									7	1							3	8								19
25 TO 30																										0
30 TO 35																										0
35 TO 40																										0
40 TO 45																										0
45 TO 50																										0
50 TO 55																										0
55 TO 60																										0
60 TO 65																										0
	0	0	0	0	0	0	0	0	37	154	152	71	79	41	36	42	39	17	0	0	0	0	0	0	0	668

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND TEMPERATURE

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 12: 7 10/ 4/81 END TIME: 22:52 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

TEMPERATURE (CENT)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-2.0 TO -1.9																										0
-1.9 TO -1.8										1																1
-1.8 TO -1.7									17	132	174	98	214	102	97	46										880
-1.7 TO -1.6									18	164	45	120	273	350	122	36	2	1	9							1140
-1.6 TO -1.5									55	379	295	779	1569	1452	1247	740	401	101	228	236	108	12	9	1		7692
-1.5 TO -1.4									2	25	12	12	42	16	15	3	11	35	39	14	10	3	8	1		248
-1.4 TO -1.3										29	97	45	31	23	25	17	41	14	14	2						338
-1.3 TO -1.2										6	21	11	8	3	1	10	15	11	13	1						100
-1.2 TO -1.1									5	12	4	4	1	2	2	6	7	9	14	1						67
-1.1 TO -1.0									3	10	2	3	2					5	15	2						42
-1.0 TO -0.9									1	2	2	1			1		1	1	11	3	3					26
-0.9 TO -0.8									1	8	1	2			2	1	2		3	1						21
-0.8 TO -0.7									1	4	1					3			2	1						12
-0.7 TO -0.6									3	3	1	2				3										12
-0.6 TO -0.5									2	2	3	1				1										9
-0.5 TO -0.4									2	11	16	9														38
-0.4 TO -0.3									6	60	49	16														131
-0.3 TO -0.2									13	2	49	12														76
-0.2 TO -0.1										40	17	2														59
-0.1 TO 0.0																										0
0.0 TO 0.1																										0
0.1 TO 0.2																										0
0.2 TO 0.3																										0
0.3 TO 0.4																										0
0.4 TO 0.5																										0
0.5 TO 0.6																										0
0.6 TO 0.7																										0
0.7 TO 0.8																										0
0.8 TO 0.9																										0
0.9 TO 1.0																										0
	0	0	0	0	0	0	0	0	129	890	789	1117	2140	1940	1512	866	480	257	348	261	121	15	17	2	0	10892

FREQUENCY DISTRIBUTION OF SPEED AND DIRECTION

STN : C6-2 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 21/ 0

START TIME: 12: 7 10/ 4/81 END TIME: 22:52 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

SPEED (CM/SEC)

DIRECTION (DEG)	0 TO 4	4 TO 8	8 TO 12	12 TO 16	16 TO 20	20 TO 24	24 TO 28	28 TO 32	32 TO 36	36 TO 40	40 TO 44	44 TO 48	48 TO 52	52 TO 56	56 TO 60	60 TO 64	64 TO 68	68 TO 72	72 TO 76	76 TO 80	80 TO 84	84 TO 88	88 TO 92	92 TO 96	96 TO 100	
0 TO 10	23	12	13		2																					50
10 TO 20	28	3	16	2	1																					50
20 TO 30	37	12	12	2																						63
30 TO 40	26	8	8																							42
40 TO 50	38	13	7	4																						62
50 TO 60	44	30	1	1																						76
60 TO 70	58	50	18	2	4																					132
70 TO 80	61	73	41	13	12	6	4	1	5	3																219
80 TO 90	55	132	90	25	8	23	17	5	8		2	3														368
90 TO 100	62	179	176	90	54	56	52	7	10	8	7	9														710
100 TO 110	75	242	245	170	148	87	31	36	42	9	14	9	1													1109
110 TO 120	78	241	211	284	187	94	52	125	132	67	73	14	7	15												1580
120 TO 130	81	168	217	244	127	101	70	54	67	110	16	1														1256
130 TO 140	73	151	190	140	107	54	32	2	12	10	1															772
140 TO 150	77	138	140	71	34	16	7	4	2	2	8	2														501
150 TO 160	64	145	117	39																						365
160 TO 170	45	87	47	7	2																					188
170 TO 180	55	71	23	5																						154
180 TO 190	51	89	32	14																						186
190 TO 200	55	49	26	13																						143
200 TO 210	58	50	9	5																						122
210 TO 220	41	64	7	7																						119
220 TO 230	35	34	5	18	2	1																				95
230 TO 240	32	49	18	21	17	8	2																			147
240 TO 250	32	38	24	16	7	18	13	1																		149
250 TO 260	33	59	40		11																					143
260 TO 270	37	89	42	3	5																					176
270 TO 280	37	72	62	17	4																					192
280 TO 290	33	68	104	86	2																					293
290 TO 300	35	55	131	173	16																					410
300 TO 310	33	35	137	214	19																					438
310 TO 320	19	37	61	43	1																					161
320 TO 330	31	15	40	10																						96
330 TO 340	42	13	33	20		1	1																			110
340 TO 350	40	13	8	27	7	14	20	2																		131
350 TO 360	22	17	12		9	22	2																			84
	1646	2601	2363	1786	786	501	303	237	278	209	121	38	8	15	0	0	0	0	0	0	0	0	0	0	0	10892

CG 22

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 0: 8 12/ 4/81 END TIME: 23:53 18/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8								3																		3
-8 TO -6					16	30	38	91	32	23																230
-6 TO -4						46	21	66	1	1																135
-4 TO -2						3	14	58	4	5	4	10	5													103
-2 TO 0							1	5		4	11	1	1	29	2		5									59
0 TO 2														5	30	8	11	13	1							68
2 TO 4															1		16	21	7							45
4 TO 6																	7	19								26
6 TO 8																		3								3
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	16	79	74	223	37	33	15	11	6	34	33	8	39	56	8	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 0: 8 19/ 4/81 END TIME: 23:53 25/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6										4	3		1	14	1											23
-6 TO -4										6	49	11	6	6	9											87
-4 TO -2											86	45	10	23	5											169
-2 TO 0											35	25	3	60	11											134
0 TO 2													2	23	9	2	1	1	6	2						46
2 TO 4												2	7	17				2	4	12	12	10				66
4 TO 6												2	11	6					6	9	64	16				114
6 TO 8																			6	9	13					28
8 TO 10																			4	1						5
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	10	173	85	40	149	35	2	1	3	26	33	89	26	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 0: 8 26/ 4/81 END TIME: 23:53 2/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2												28	8	17	1											54
-2 TO 0											14	47	47	56	11		1	5	4	2	2					189
0 TO 2											6	11	2	65	51	30	30	17	3	2	2					219
2 TO 4													1	7	31	23	34	19	2	7	1					125
4 TO 6														2	6	21	8	5		6	5					53
6 TO 8														4	3	2	1			14	8					32
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	20	86	58	151	103	76	74	46	9	31	18	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 0: 8 3/ 5/81 END TIME: 23:53 9/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4												1														1
-4 TO -2										2	1	14	11	1												29
-2 TO 0										15	131	3	43	80	20	1										293
0 TO 2											24	2	11	163	17	7										224
2 TO 4												4	63	23	19	12										121
4 TO 6														3		1										4
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	17	156	24	128	270	56	21	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 0: 8 10/ 5/81 END TIME: 23:53 16/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2													7	2												9
-2 TO 0													16	61	19	3	3									102
0 TO 2														108	70	52	19	3	10							262
2 TO 4													1	21	79	45	26	10	35	2						219
4 TO 6															10	4	5	16	28	6						69
6 TO 8																		1	2	8						11
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	0	0	24	192	178	104	53	30	75	16	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 0: 8 17/ 5/81 END TIME: 23:53 23/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6									6	5	1															12
-6 TO -4								5	21	12	6	2			2	2										50
-4 TO -2								11	28	20	4	4	1	14	12	3										97
-2 TO 0								14	24	13	5		2	4		7	4	1				2	2			78
0 TO 2								1	1	5	34	9	6	22	2	14	13	6	2		1					116
2 TO 4											5	7	12	14	4	6	4	5	15	8		4				84
4 TO 6															7	3	6	10	22	23	3	7				81
6 TO 8																2	1	8	18	9	3	6	9	2		58
8 TO 10																			8	2	3		7	9		29
10 TO 12																	1		2		2	3	18	11	2	39
12 TO 14																			1		2	4	7	3	1	18
14 TO 16																				1	5	3				9
16 TO 18																					1					1
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	31	80	55	55	22	21	54	27	37	29	30	68	43	20	29	43	25	3	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2   DEPTH : 268 M   LAT : 70.9 N   LONG : 146.0 W   TAPE : 22/ 0

START TIME: 0: 0 24/ 5/81   END TIME: 23:53 30/ 5/81   SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6													3	1						1			1			6
-6 TO -4					3	10	8	4		2	2	8	13	11	1					1						63
-4 TO -2					4	2	8	12	12	5	18	22		4	2					1						90
-2 TO 0					5	3	12	24	14	7	9	5		8	12	7	11	2		1						120
0 TO 2					6	13		7	18		4	1	6	17	6	4	7	18	1	3		5				116
2 TO 4					1	10	5					1	7	3	8	1	2	6	5	6	8	16	1	1		81
4 TO 6						3	3	3				1			3	6	5	1	3	3	3		4	7		45
6 TO 8						6	3	3	1		1				2	4				5	7	5		5	7	49
8 TO 10																			3	4	2	6	4	4	5	28
10 TO 12																				2	7	7	12	8	2	38
12 TO 14																				1	1	2	9	9	4	26
14 TO 16																							2	7		9
16 TO 18																				1						1
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	19	47	39	53	45	14	34	38	29	44	34	22	25	27	12	29	28	41	33	41	18	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 0: 8 31/ 5/81 END TIME: 2:38 3/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6							4	20	2	3	5															34
-6 TO -4						2	18	53	45	21	48	11														198
-4 TO -2							3	26	12	4	8															53
-2 TO 0							1	9	3	1																14
0 TO 2																										0
2 TO 4																										0
4 TO 6																										0
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	2	26	108	62	29	61	11	0	0	0	0	0	0	0	0	0	0	0	0	0	299

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND TEMPERATURE

STN : C6-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 12: 0 10/ 4/81 END TIME: 2:30 3/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

TEMPERATURE (CENT)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-2.0 TO -1.9																										0
-1.9 TO -1.8																										0
-1.8 TO -1.7																										0
-1.7 TO -1.6																										0
-1.6 TO -1.5																										0
-1.5 TO -1.4																										0
-1.4 TO -1.3																										0
-1.3 TO -1.2														1												1
-1.2 TO -1.1																										0
-1.1 TO -1.0																										0
-1.0 TO -0.9																										0
-0.9 TO -0.8																										0
-0.8 TO -0.7											5															5
-0.7 TO -0.6										6	8															14
-0.6 TO -0.5										39	13	20	20		14	2										108
-0.5 TO -0.4									1	22	45	10	20	49	49	16	11	2								225
-0.4 TO -0.3										19	13	17		33	64	76	68	5								295
-0.3 TO -0.2										18	58	67	64	65	52	54	73	3								454
-0.2 TO -0.1										20	101	91	297	115	102	4	1									731
-0.1 TO 0.0										19	120	27	300	240	76											782
0.0 TO 0.1										7	76	171	469	222	58											1003
0.1 TO 0.2									2	147	139	147	177	2	43	55										712
0.2 TO 0.3										2	130	64	114	4	5	16										335
0.3 TO 0.4											5	255	106	3	20	87										476
0.4 TO 0.5												6														6
0.5 TO 0.6																										0
0.6 TO 0.7																										0
0.7 TO 0.8																										0
0.8 TO 0.9																										0
0.9 TO 1.0																										0
	0	0	0	0	0	0	0	0	3	299	713	875	1567	734	483	310	153	10	0	0	0	0	0	0	0	5147

FREQUENCY DISTRIBUTION OF SPEED AND DIRECTION

STN : C6-2 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 22/ 0

START TIME: 12: 8 10/ 4/81 END TIME: 2:38 3/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

SPEED (CM/SEC)

DIRECTION (DEG)	0 TO 4	4 TO 8	8 TO 12	12 TO 16	16 TO 20	20 TO 24	24 TO 28	28 TO 32	32 TO 36	36 TO 40	40 TO 44	44 TO 48	48 TO 52	52 TO 56	56 TO 60	60 TO 64	64 TO 68	68 TO 72	72 TO 76	76 TO 80	80 TO 84	84 TO 88	88 TO 92	92 TO 96	96 TO 100	
0 TO 10	4	1																								5
10 TO 20	6	1																								7
20 TO 30	5	4																								9
30 TO 40	12	5																								17
40 TO 50	27	4																								31
50 TO 60	34	15	3																							52
60 TO 70	33	10	2																							45
70 TO 80	57	48	17	1	4	10																				137
80 TO 90	48	107	39	19	18	30	25																			286
90 TO 100	141	226	141	130	96	49	65	5																		853
100 TO 110	123	225	160	140	143	25	14																			830
110 TO 120	116	90	86	20	11	2																				325
120 TO 130	89	69	19	3	1																					181
130 TO 140	56	18		1	1	1																				77
140 TO 150	79	20			1																					100
150 TO 160	56	20	2																							78
160 TO 170	83	30																								113
170 TO 180	28	10																								38
180 TO 190	15	35																								50
190 TO 200	17	13																								30
200 TO 210	13	6																								19
210 TO 220	15	2																								17
220 TO 230	25	25																								50
230 TO 240	56	89																								145
240 TO 250	61	82	25																							168
250 TO 260	92	31	108	8																						239
260 TO 270	63	29	134	46																						272
270 TO 280	85	79	226	102	15																					507
280 TO 290	49	56	101	16																						222
290 TO 300	20	20	27	10																						77
300 TO 310	22	18	6	21																						67
310 TO 320	19	2	4	6																						31
320 TO 330	20	2	3	15																						40
330 TO 340	15		3																							18
340 TO 350	10		1																							11
350 TO 360																										0
	1594	1392	1107	538	290	117	104	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5147

CG 31

FREQUENCY DISTRIBUTION OF SPEED AND TEMPERATURE

STN : CG-3 DEPTH : 40 M LAT : 70.9 N LONG : 146.0 W TAPE : 31/ 0

START TIME: 10: 7 11/ 4/81 END TIME: 1:52 2/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

SPEED (CM/SEC)

TEMPERATURE (CENT)	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	26 TO 28	28 TO 30	30 TO 32	32 TO 34	34 TO 36	36 TO 38	38 TO 40	40 TO 42	42 TO 44	44 TO 46	46 TO 48	48 TO 50	
-2.0 TO -1.9																										0
-1.9 TO -1.8		4	11	4	11	20	12	4	2	4	2	1														75
-1.8 TO -1.7	1	197	173	117	110	102	98	39	30	16	8	2	2	4												899
-1.7 TO -1.6	3	592	592	923	1181	1205	1099	695	395	318	239	214	155	105	104	66	48	33	9	12	7	8	4			8007
-1.6 TO -1.5		2	27	3	16	49	74	63	52	50	86	104	106	65	53	37	14	8	5	2	5			2		823
-1.5 TO -1.4				3	6	2	1	15	10	9	10	18	7	7	9	24	11	22	14	4	1	2	3	5		183
-1.4 TO -1.3		3	11	3	3		9	12	10	3	10	8	6	10	5	10	4	4	5	3						119
-1.3 TO -1.2		1	2				1	9	6	5	14	11	4	1	3	3		2	1	3						66
-1.2 TO -1.1						1	21	4	2	2	4	6	8	4	1	1	1	3			1					59
-1.1 TO -1.0									1	2	5	2	2			1		3	1			1				18
-1.0 TO -0.9								1	2	1	1	2	3	1			3	4		1						19
-0.9 TO -0.8												3	2	3	2	3	10	4	1							28
-0.8 TO -0.7								1			3	6	1	3	2	4	5	4	3							32
-0.7 TO -0.6									5			2	4	6	3	5	3	3			1					32
-0.6 TO -0.5									1			2	4	4	10	2	7	9		1		1				41
-0.5 TO -0.4									2	3	3	4	5	6	7	3	7	10	4	5	2					69
-0.4 TO -0.3			6		1	1		9	33	9	7	4	3	3	8	6	8		1				2			101
-0.3 TO -0.2			1	5	6	6	7	4			3	17	5	2	18	19	21					2				116
-0.2 TO -0.1												7	2	16	3	7	4									39
-0.1 TO 0.0												2	15	20	10	7	8	1								63
0.0 TO 0.1													16	6	1		2									25
0.1 TO 0.2													2													2
0.2 TO 0.3																										0
0.3 TO 0.4																										0
0.4 TO 0.5																										0
0.5 TO 0.6																										0
0.6 TO 0.7																										0
0.7 TO 0.8																										0
0.8 TO 0.9																										0
0.9 TO 1.0																										0
	4	799	823	1058	1334	1386	1322	856	551	422	395	415	352	266	239	198	156	118	44	31	17	14	9	7	0	10816

CG 32

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 12/ 4/81 END TIME: 23:52 18/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6										3	2															5
-6 TO -4									1	10	14	7														32
-4 TO -2									1	103	150	30	31	21	11	3										350
-2 TO 0										20	64	26	1	33	23	9										176
0 TO 2											6				24	29	3									62
2 TO 4															2	36	9									47
4 TO 6																										0
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	2	136	236	63	32	54	60	77	12	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 19/ 4/81 END TIME: 23:52 25/ 4/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8											8	10														18
-8 TO -6										12	11	16														39
-6 TO -4									7	11	57	40	59	7												181
-4 TO -2								1	10	2	33	6	25	33												110
-2 TO 0											62	25	4	104												195
0 TO 2											12	35	11	47												105
2 TO 4												11	8	5												24
4 TO 6																										0
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	1	17	25	183	143	107	196	0	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 26/ 4/81 END TIME: 23:52 2/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2												1	3													4
-2 TO 0											3	16	10	39	11											79
0 TO 2											5	2	1	114	138	55										315
2 TO 4														115	142	4										261
4 TO 6															13											13
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	8	19	14	268	304	59	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 3/ 5/81 END TIME: 23:52 9/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2												2	4	2	41	13										62
-2 TO 0											34	24	16	156	99	7										336
0 TO 2											34	27	24	85	10											180
2 TO 4												10	50	26	5											91
4 TO 6													2	1												3
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	68	63	96	270	155	20	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 260 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 10/ 5/81 END TIME: 23:52 16/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2												3	9		6											18
-2 TO 0													9	22	117	29										177
0 TO 2											1	2	7	137	172	49										368
2 TO 4												2	34	36	17	14										103
4 TO 6													6													6
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	1	7	65	195	312	92	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 17/ 5/81 END TIME: 23:52 23/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2											6	20	20	3												49
-2 TO 0											15	11	48	121	23	23	12	10								263
0 TO 2											14	8	9	42	70	34	21	1								199
2 TO 4												3	6	6	16	46	29	2								108
4 TO 6															8	35	5									48
6 TO 8															2	3										5
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	35	42	83	172	119	141	67	13	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 24/ 5/81 END TIME: 23:52 30/ 5/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2												1	1	2		1										5
-2 TO 0											3	11	4	20	47	56	7									148
0 TO 2											5		8	86	119	57	40	8	5							328
2 TO 4													8	34	24	1	20	35	5							127
4 TO 6														1	1		4	17	8							31
6 TO 8																		3	4							7
8 TO 10																		2	6							8
10 TO 12																			7							7
12 TO 14																		1	6	2						9
14 TO 16																			2							2
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	8	12	21	143	191	115	71	66	43	2	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 31/ 5/81 END TIME: 23:52 6/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4												13														13
-4 TO -2										27	51	178	121													377
-2 TO 0										14	97	73	18	13	6	2										223
0 TO 2											4	6	4	32	12											58
2 TO 4													1													1
4 TO 6																										0
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	41	152	270	144	45	18	2	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 7/ 6/81 END TIME: 23:52 13/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2														2		1										3
-2 TO 0												5	13	37	32	51	1									139
0 TO 2											1	1	19	99	53	45	3									221
2 TO 4												10	27	43	54	56	28	2								220
4 TO 6												2	5	10	26	22	7									72
6 TO 8														1	4	9	1									15
8 TO 10															1	1										2
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	1	18	64	192	170	185	40	2	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 14/ 6/81 END TIME: 23:52 20/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6															25	39										64
-6 TO -4															28	3										31
-4 TO -2									12	26	39	51	5	8	5											146
-2 TO 0								3	2	4	102	186	12	16												325
0 TO 2								4	8		19	4	4	6												45
2 TO 4									26	9	10	11	1													57
4 TO 6									1	3																4
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	7	49	42	170	252	22	30	58	42	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 21/ 6/81 END TIME: 23:52 27/ 6/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6															1											1
-6 TO -4											9	10	17	37	6											79
-4 TO -2										5	42	48	30	8												133
-2 TO 0										22	97	71	26	44												260
0 TO 2										11	66	60	27	28												192
2 TO 4												2	5													7
4 TO 6																										0
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	38	214	191	105	117	7	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 28/ 6/81 END TIME: 23:52 4/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2											14	6	12	5												37
-2 TO 0									2	40	124	140	19	23												348
0 TO 2									1	32	41	47	70	33												224
2 TO 4												16	31	16												63
4 TO 6																										0
6 TO 8																										0
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	3	72	179	209	132	77	0	0	0	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 5/ 7/81 END TIME: 23:52 11/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2													1	4	2	2										9
-2 TO 0													2	40	56	18	2									118
0 TO 2													13	110	77	26	9									235
2 TO 4													23	72	79	38	4									216
4 TO 6														3	22	34	16									75
6 TO 8															2	9	8									19
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	0	0	39	229	238	127	39	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 12/ 7/81 END TIME: 23:52 18/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4														1	1											2
-4 TO -2													5	7	1	1										14
-2 TO 0												1	2	29	27	14										73
0 TO 2												2	2	70	104	82	2									262
2 TO 4												9	21	75	92	58	8									263
4 TO 6												2	12	7	13	19	4									57
6 TO 8												1														1
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	0	15	42	189	238	174	14	0	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : CG-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 19/ 7/81 END TIME: 23:52 25/ 7/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																										0
-6 TO -4																										0
-4 TO -2													2	2	4	4										12
-2 TO 0													21	32	15	16	19	15	3							121
0 TO 2													23	50	25	22	26	24	7							177
2 TO 4													4	16	18	24	34	33	8	4						141
4 TO 6														11	20	47	45	25	12	2	2					164
6 TO 8																5	15	21	10							51
8 TO 10																	2	2	2							6
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	0	0	50	111	82	118	141	120	42	6	2	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND OFFSHORE COMP

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 0: 7 26/ 7/81 END TIME: 23:52 1/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

OFFSHORE COMP (CM/SEC)	-24 TO -22	-22 TO -20	-20 TO -18	-18 TO -16	-16 TO -14	-14 TO -12	-12 TO -10	-10 TO -8	-8 TO -6	-6 TO -4	-4 TO -2	-2 TO 0	0 TO 2	2 TO 4	4 TO 6	6 TO 8	8 TO 10	10 TO 12	12 TO 14	14 TO 16	16 TO 18	18 TO 20	20 TO 22	22 TO 24	24 TO 26	
-24 TO -22																										0
-22 TO -20																										0
-20 TO -18																										0
-18 TO -16																										0
-16 TO -14																										0
-14 TO -12																										0
-12 TO -10																										0
-10 TO -8																										0
-8 TO -6																4										4
-6 TO -4																5	4									9
-4 TO -2													1	7	8	11	5									32
-2 TO 0												1	3	58	23	22	12	2								121
0 TO 2												3	14	74	74	49	21	2								237
2 TO 4												3	22	43	48	50	17	1								184
4 TO 6												5	7	8	29	16	11									76
6 TO 8												6				2	1									9
8 TO 10																										0
10 TO 12																										0
12 TO 14																										0
14 TO 16																										0
16 TO 18																										0
18 TO 20																										0
20 TO 22																										0
22 TO 24																										0
24 TO 26																										0
	0	0	0	0	0	0	0	0	0	0	0	18	47	190	182	159	71	5	0	0	0	0	0	0	0	672

FREQUENCY DISTRIBUTION OF LONGSHORE COMP AND TEMPERATURE

STN : CG-3 DEPTH : 260 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 10: 7 11/ 4/81 END TIME: 1:52 2/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

LONGSHORE COMP (CM/SEC)

TEMPERATURE (CENT)	-60 TO -55	-55 TO -50	-50 TO -45	-45 TO -40	-40 TO -35	-35 TO -30	-30 TO -25	-25 TO -20	-20 TO -15	-15 TO -10	-10 TO -5	-5 TO 0	0 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	35 TO 40	40 TO 45	45 TO 50	50 TO 55	55 TO 60	60 TO 65	
-2.0 TO -1.9																										0
-1.9 TO -1.8																										0
-1.8 TO -1.7																										0
-1.7 TO -1.6																										0
-1.6 TO -1.5																										0
-1.5 TO -1.4																										0
-1.4 TO -1.3																										0
-1.3 TO -1.2																										0
-1.2 TO -1.1																										0
-1.1 TO -1.0																										0
-1.0 TO -0.9																										0
-0.9 TO -0.8																										0
-0.8 TO -0.7																										0
-0.7 TO -0.6																										0
-0.6 TO -0.5																										0
-0.5 TO -0.4																										0
-0.4 TO -0.3																										0
-0.3 TO -0.2													40	89	1											130
-0.2 TO -0.1												34	533	753	117											1437
-0.1 TO 0.0											24	332	1267	1014	170	3										2810
0.0 TO 0.1											128	1420	1890	783	2											4223
0.1 TO 0.2											49	1023	949	118												2139
0.2 TO 0.3													33	36												69
0.3 TO 0.4																										0
0.4 TO 0.5																										0
0.5 TO 0.6																										0
0.6 TO 0.7																										0
0.7 TO 0.8																										0
0.8 TO 0.9																										0
0.9 TO 1.0																										0
	0	0	0	0	0	0	0	0	0	0	201	2809	4712	2793	290	3	0	0	0	0	0	0	0	0	0	10808

FREQUENCY DISTRIBUTION OF SPEED AND DIRECTION

STN : C6-3 DEPTH : 268 M LAT : 70.9 N LONG : 146.0 W TAPE : 32/ 0

START TIME: 10: 7 11/ 4/81 END TIME: 1:52 2/ 8/81 SAMPLING INTERVAL: 15.00 MINUTES

SPEED (CM/SEC)

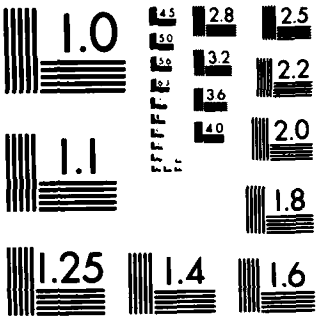
DIRECTION (DEG)	0 TO 4	4 TO 8	8 TO 12	12 TO 16	16 TO 20	20 TO 24	24 TO 28	28 TO 32	32 TO 36	36 TO 40	40 TO 44	44 TO 48	48 TO 52	52 TO 56	56 TO 60	60 TO 64	64 TO 68	68 TO 72	72 TO 76	76 TO 80	80 TO 84	84 TO 88	88 TO 92	92 TO 96	96 TO 100	
0 TO 10	37	1																								38
10 TO 20	22	7																								29
20 TO 30	40	11																								51
30 TO 40	54	20																								74
40 TO 50	70	9																								79
50 TO 60	86	21																								107
60 TO 70	130	89	8		2																					229
70 TO 80	177	269	73	4	14																					537
80 TO 90	215	476	183	40	4																					918
90 TO 100	277	596	268	43																						1184
100 TO 110	302	709	212	35	3																					1261
110 TO 120	278	656	123	15																						1072
120 TO 130	228	397	61	1																						687
130 TO 140	238	234	9																							481
140 TO 150	195	106	7																							308
150 TO 160	160	28	3																							191
160 TO 170	96	40	65																							201
170 TO 180	60	41	3																							104
180 TO 190	71	37																								108
190 TO 200	81	36																								117
200 TO 210	132	35																								167
210 TO 220	124	28	4																							156
220 TO 230	122	73	15																							210
230 TO 240	107	77	6																							190
240 TO 250	165	64	7																							236
250 TO 260	199	109	5																							313
260 TO 270	249	197	3																							449
270 TO 280	232	105	6																							343
280 TO 290	253	51	2																							306
290 TO 300	159	43	4																							206
300 TO 310	123	31	4																							158
310 TO 320	87	22	3																							112
320 TO 330	45	17	1																							63
330 TO 340	46	10																								56
340 TO 350	42	3																								45
350 TO 360	28	2																								30
	4930	4650	1075	138	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10816

DATA APPENDIX 6

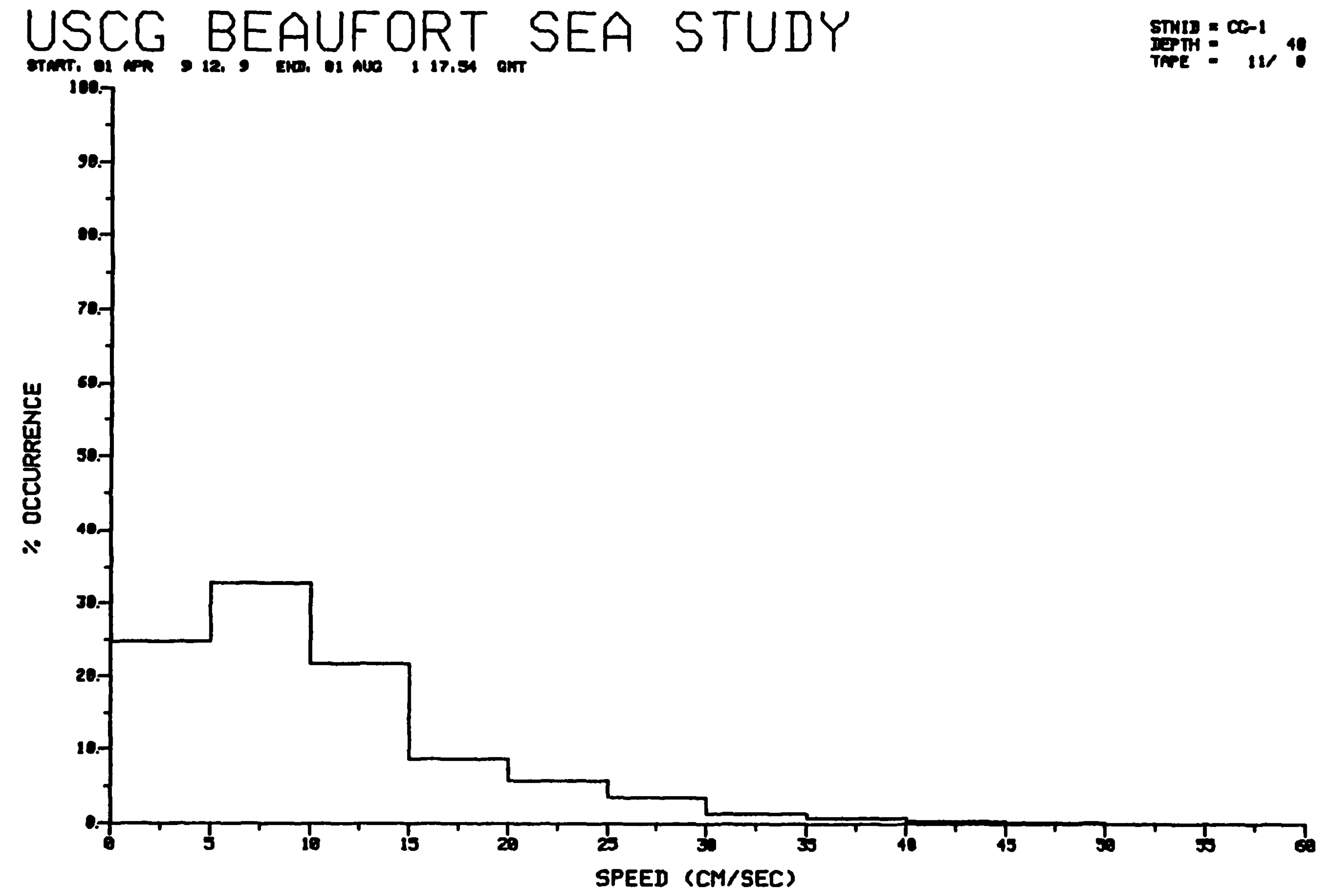
Percent Occurrences of Direction and Speed for USCG Current Meters

AD-A145 197 ANALYSIS AND INTERPRETATION OF CURRENT MEASUREMENTS FROM THE BEAUFORT SEA(U) DOBROCKY SEATECH LTD SIDNEY (BRITISH COLUMBIA) P GREISMAN ET AL. APR 84 5/6

UNCLASSIFIED USCG-D-18-84 F/G 8/3 NL



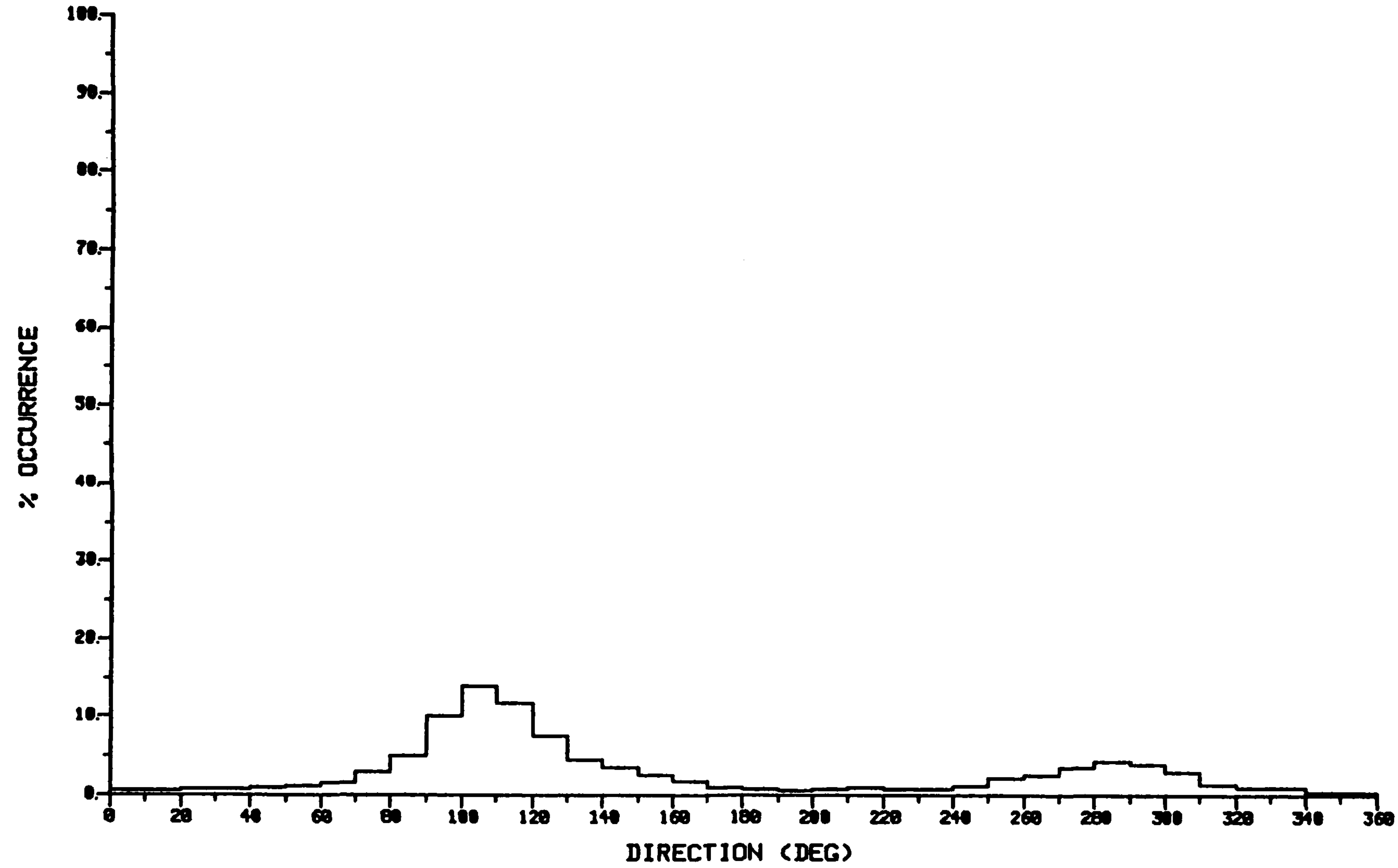
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

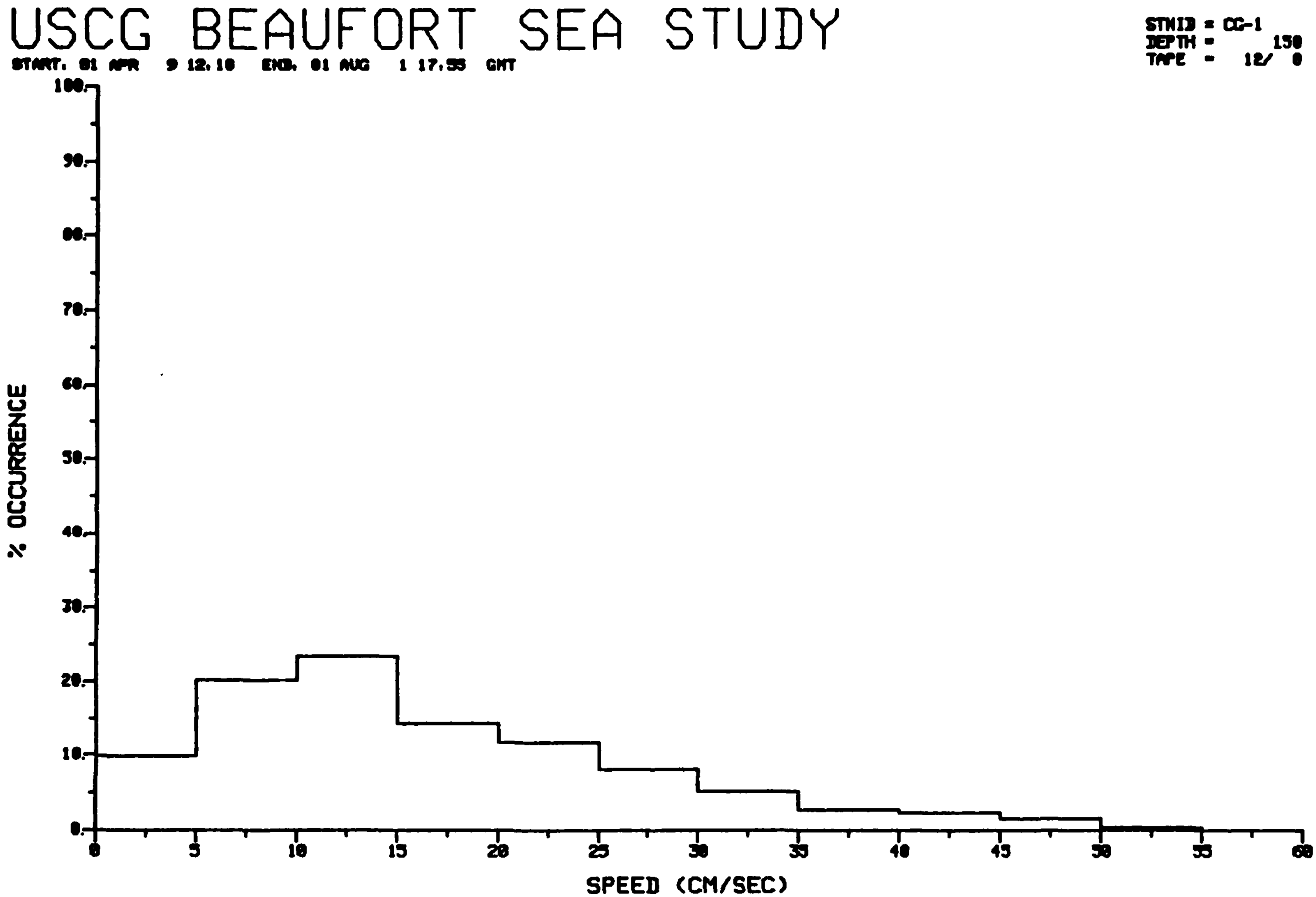

USCG BEAUFORT SEA STUDY
START. 01 APR 9 12. 9 END. 01 AUG 1 17.54 GMT
STNID = CG-1
DEPTH = 40
TAPE = 11/ 0
% OCCURRENCE
100.
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.
0
5
10
15
20
25
30
35
40
45
50
55
60
SPEED (CM/SEC)

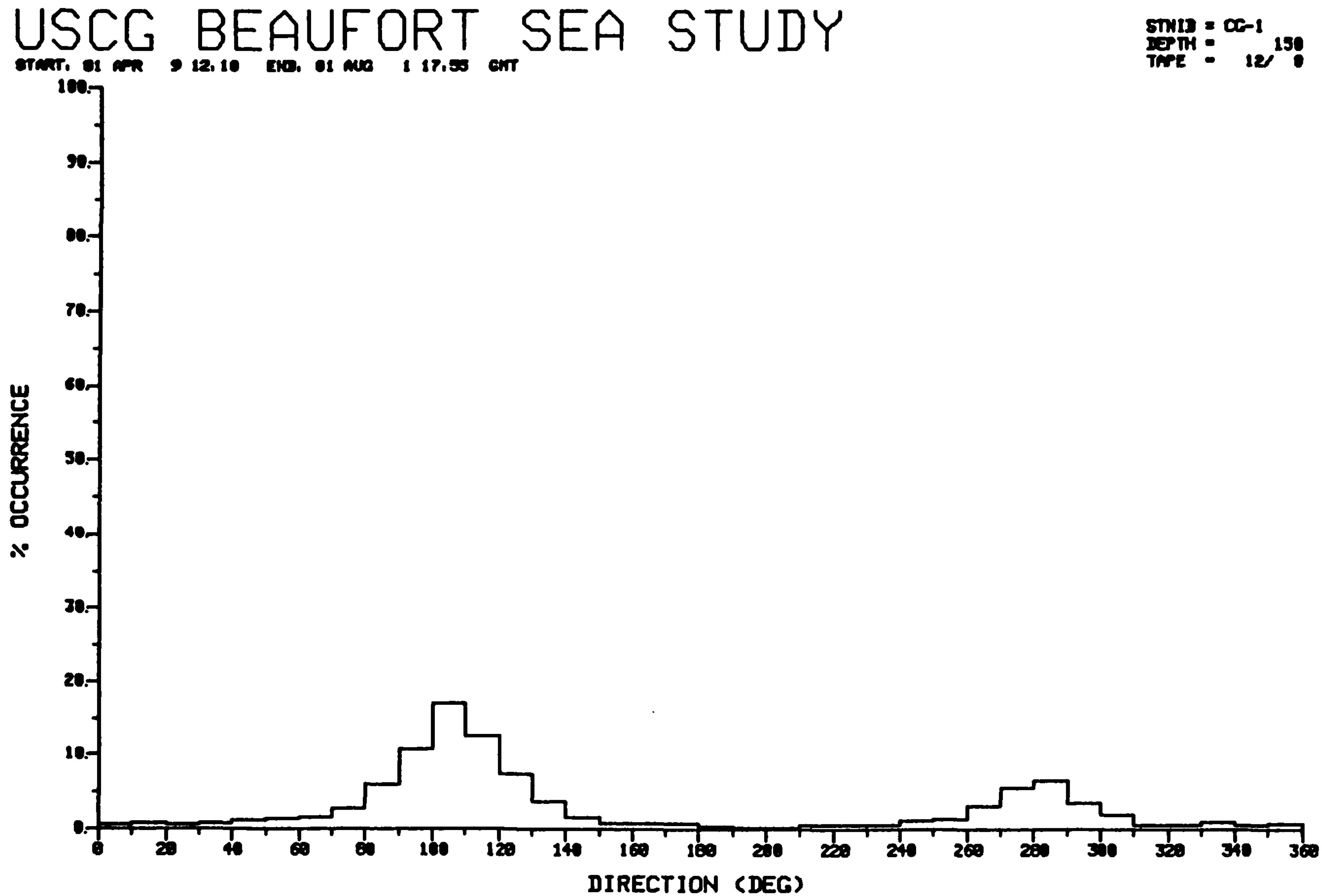
USCG BEAUFORT SEA STUDY

START. 81 APR 9 12. 9 END. 81 AUG 1 17.54 GMT

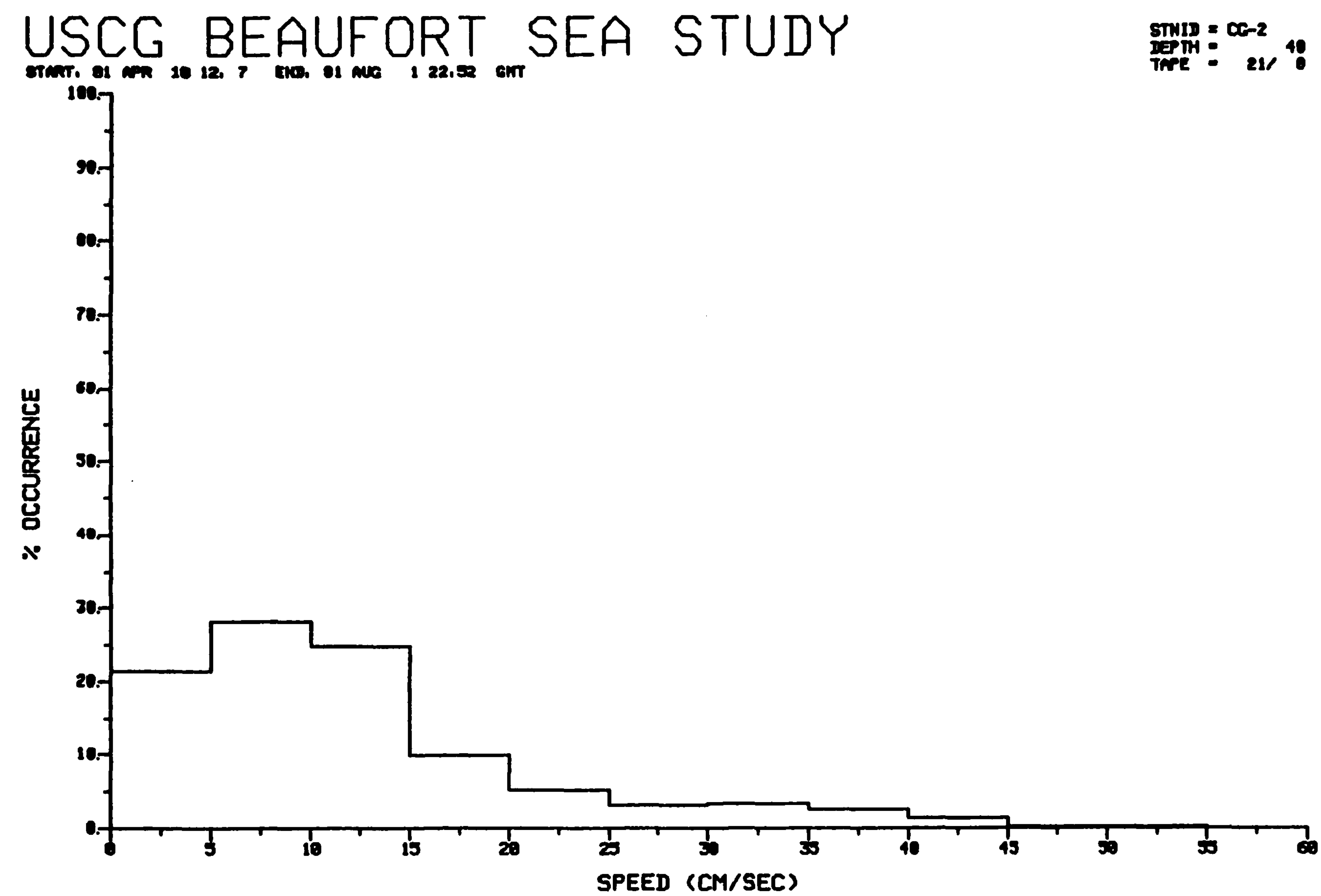
STNID = CG-1
DEPTH = 40
TAPE = 11/ 8




USCG BEAUFORT SEA STUDY
START. 01 APR 9 12.10 END. 01 AUG 1 17.55 GMT
STNID = CG-1
DEPTH = 130
TAPE = 12/ 0
% OCCURRENCE
100.
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.
0
5
10
15
20
25
30
35
40
45
50
55
60
SPEED (CM/SEC)



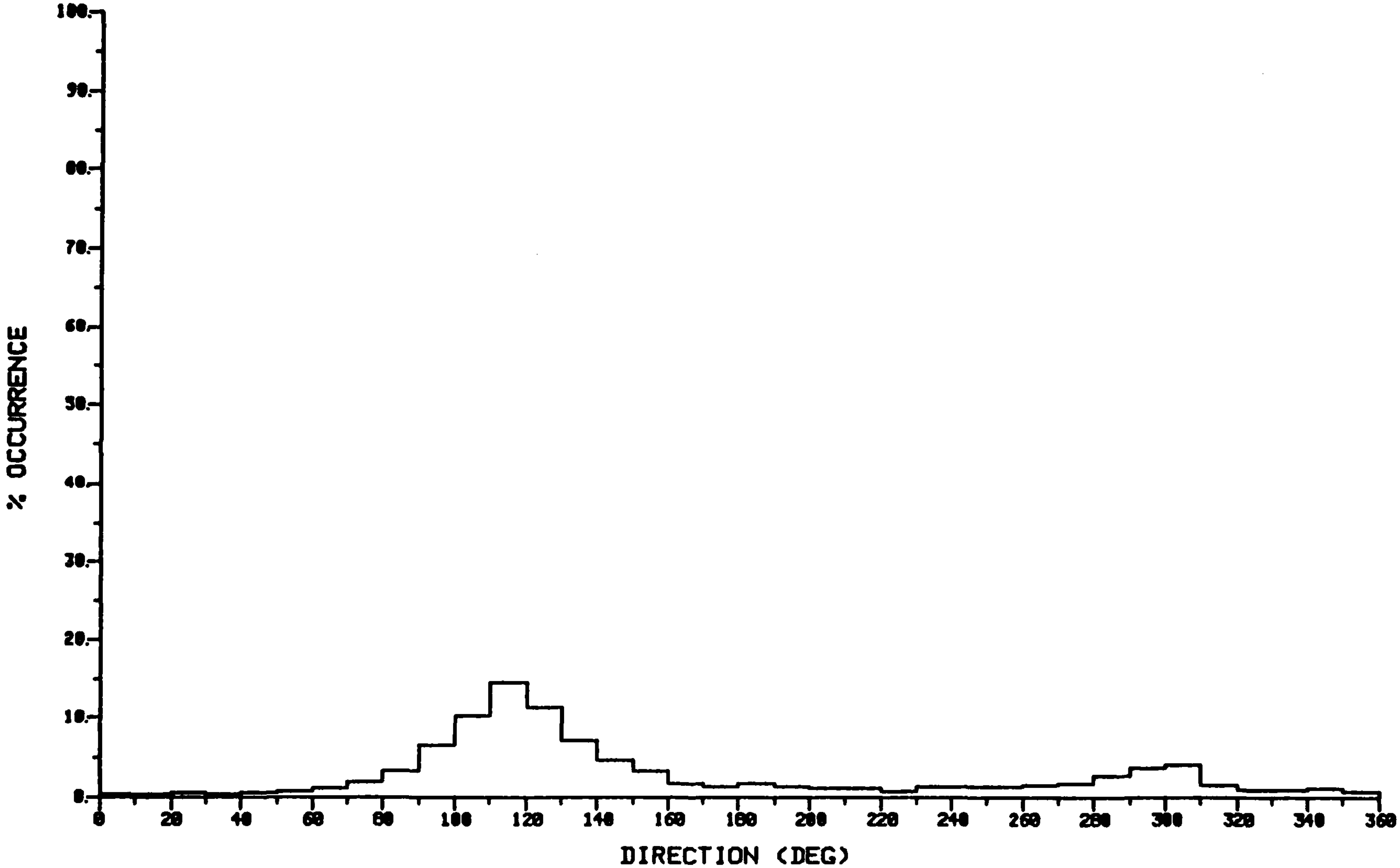
USCG BEAUFORT SEA STUDY
START. 81 APR 9 12.10 END. 81 AUG 1 17.55 GMT
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8
% OCCURRENCE
100.
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360
DIRECTION (DEG)

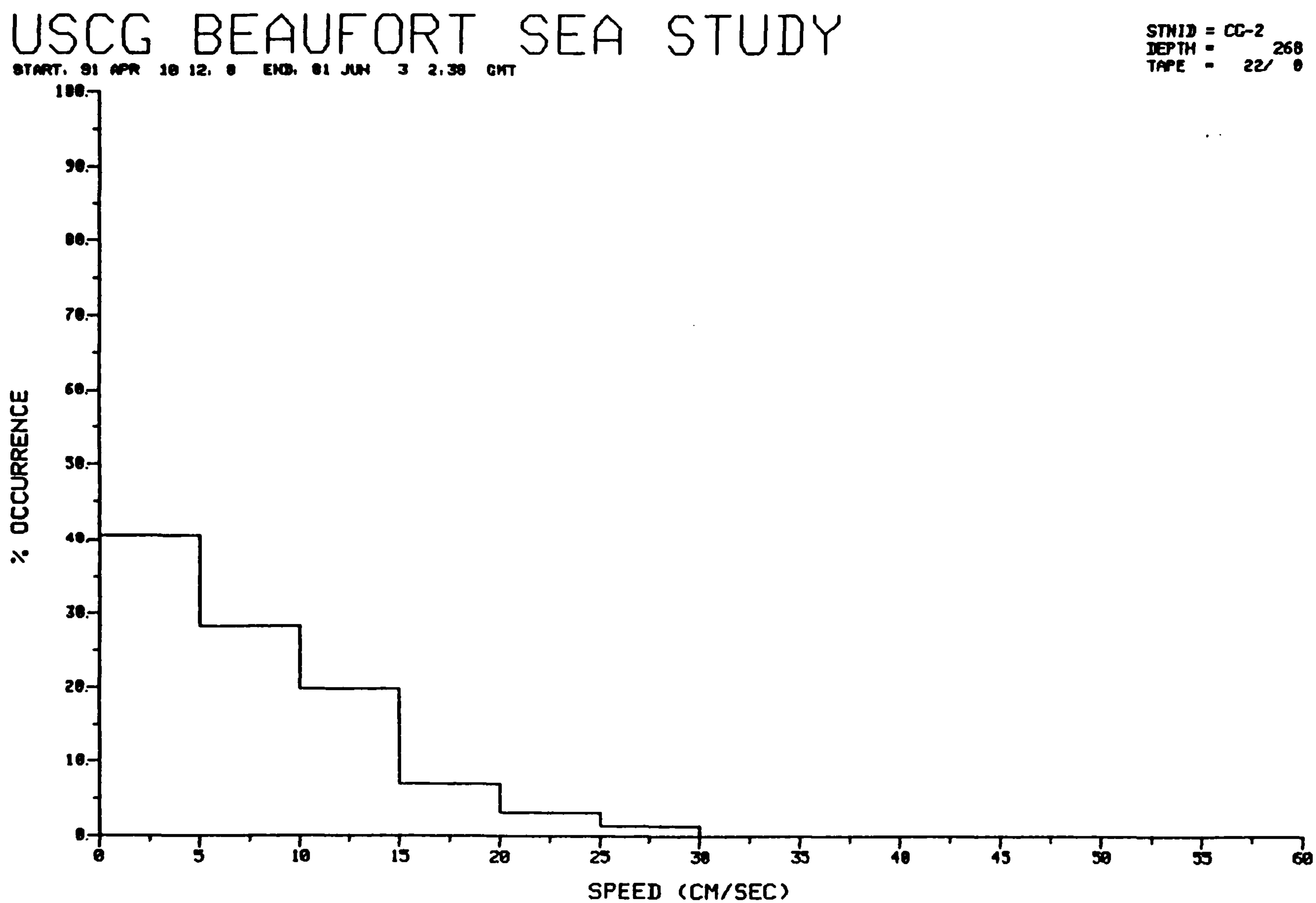

USCG BEAUFORT SEA STUDY
START, 81 APR 18 12. 7 END, 81 AUG 1 22.52 GMT
STNID = CG-2
DEPTH = 40
TAPE = 21/ 0
% OCCURRENCE
100.
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.
0
5
10
15
20
25
30
35
40
45
50
55
60
SPEED (CM/SEC)

USCG BEAUFORT SEA STUDY

START. 01 APR 10 12. 7 END. 01 AUG 1 22.52 GMT

STNID = CG-2
DEPTH = 40
TAPE = 21/ 0

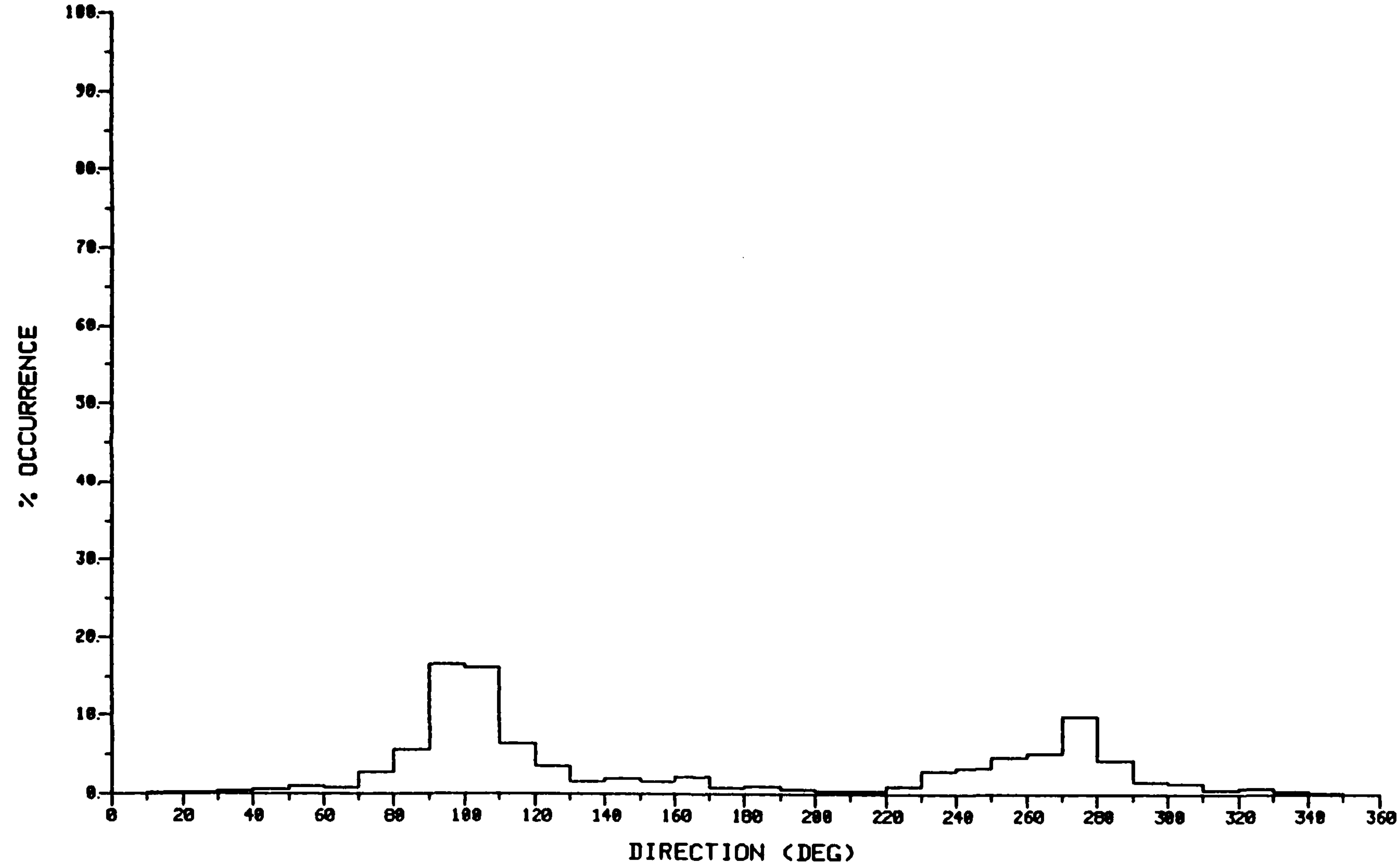



USCG BEAUFORT SEA STUDY
START. 81 APR 10 12. 0 END. 81 JUN 3 2.30 GMT
STNID = CC-2
DEPTH = 268
TAPE = 22/ 0
% OCCURRENCE
0.
10.
20.
30.
40.
50.
60.
70.
80.
90.
100.
0
5
10
15
20
25
30
35
40
45
50
55
60
SPEED (CM/SEC)

USCG BEAUFORT SEA STUDY

START. 81 APR 10 12. 0 END. 81 JUN 3 2.38 GMT

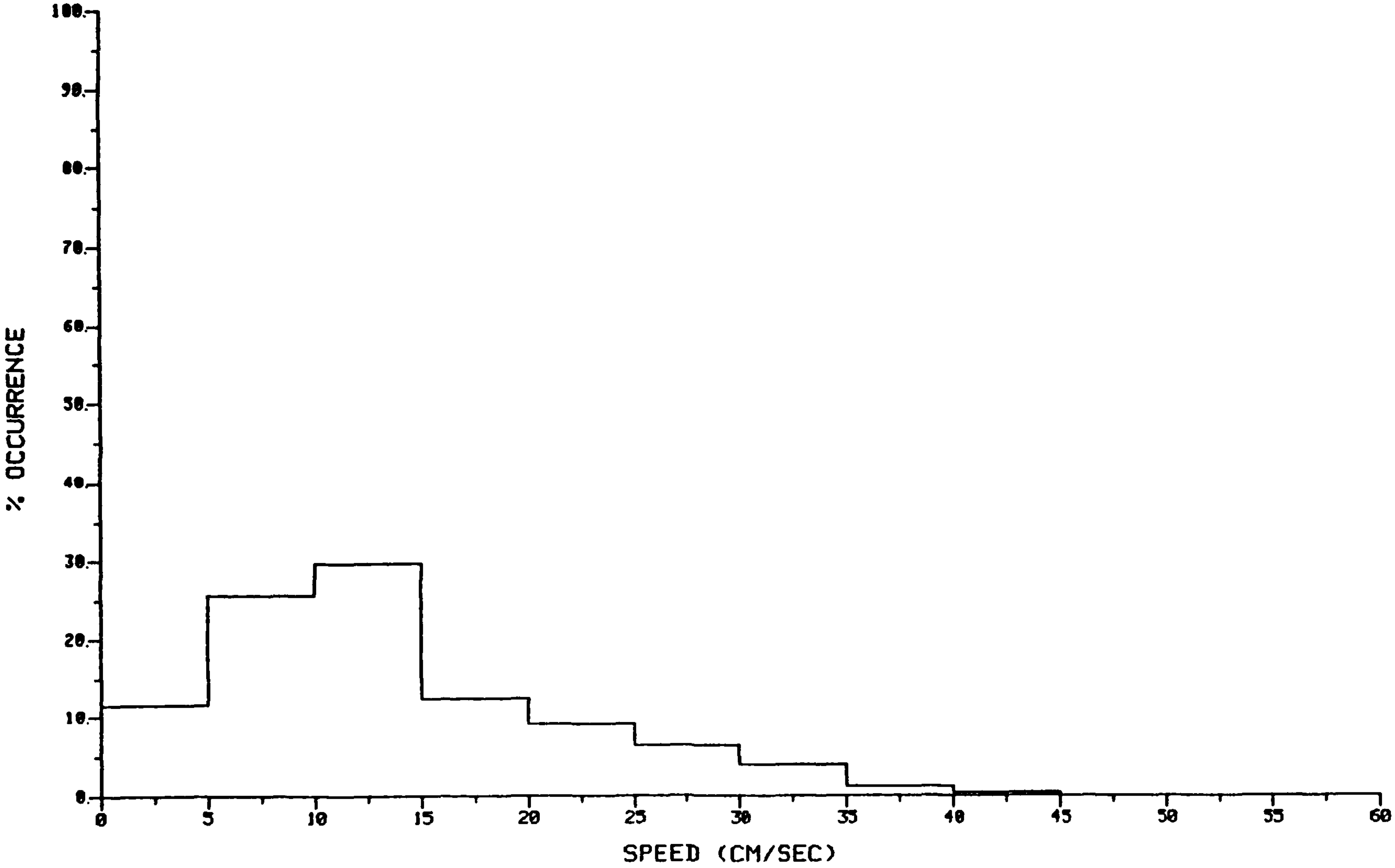
STNID = CG-2
DEPTH = 260
TAPE = 22/ 0

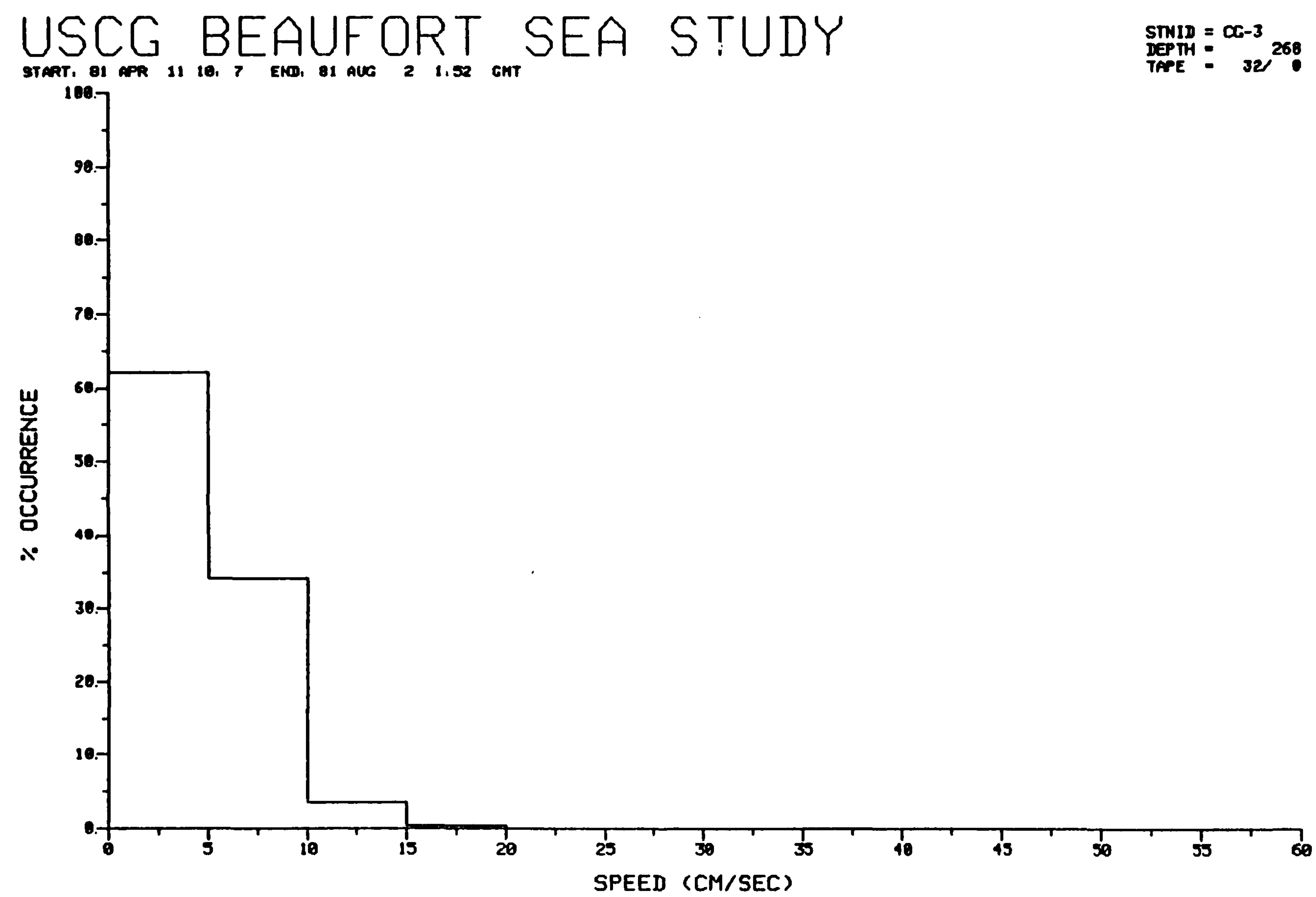


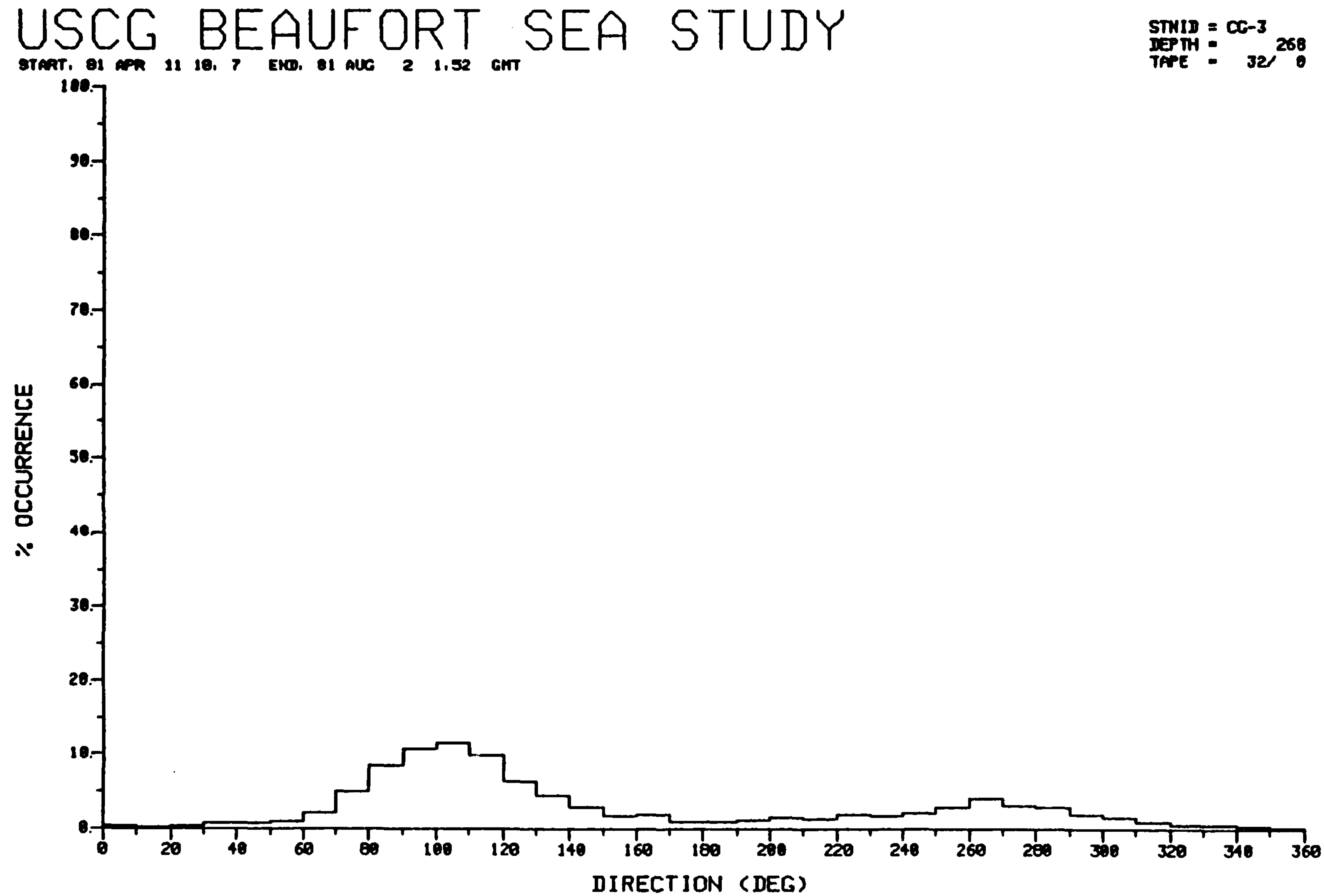
USCG BEAUFORT SEA STUDY

START. 81 APR 11 10. 7 END. 81 AUG 2 1.52 GMT

STNID = CG-3
DEPTH = 40
TAPE = 31/ 0




USCG BEAUFORT SEA STUDY
START: 81 APR 11 10: 7 END: 81 AUG 2 1:52 GMT
STNID = CG-3
DEPTH = 268
TAPE = 32/ 0
% OCCURRENCE
100.
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.
0
5
10
15
20
25
30
35
40
45
50
55
60
SPEED (CM/SEC)



USCG BEAUFORT SEA STUDY
START. 81 APR 11 10. 7 END. 81 AUG 2 1.52 GMT
STNID = CG-3
DEPTH = 268
TAPE = 32/ 0
% OCCURRENCE
0. 10. 20. 30. 40. 50. 60. 70. 80. 90. 100.
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360
DIRECTION (DEG)

DATA APPENDIX 7

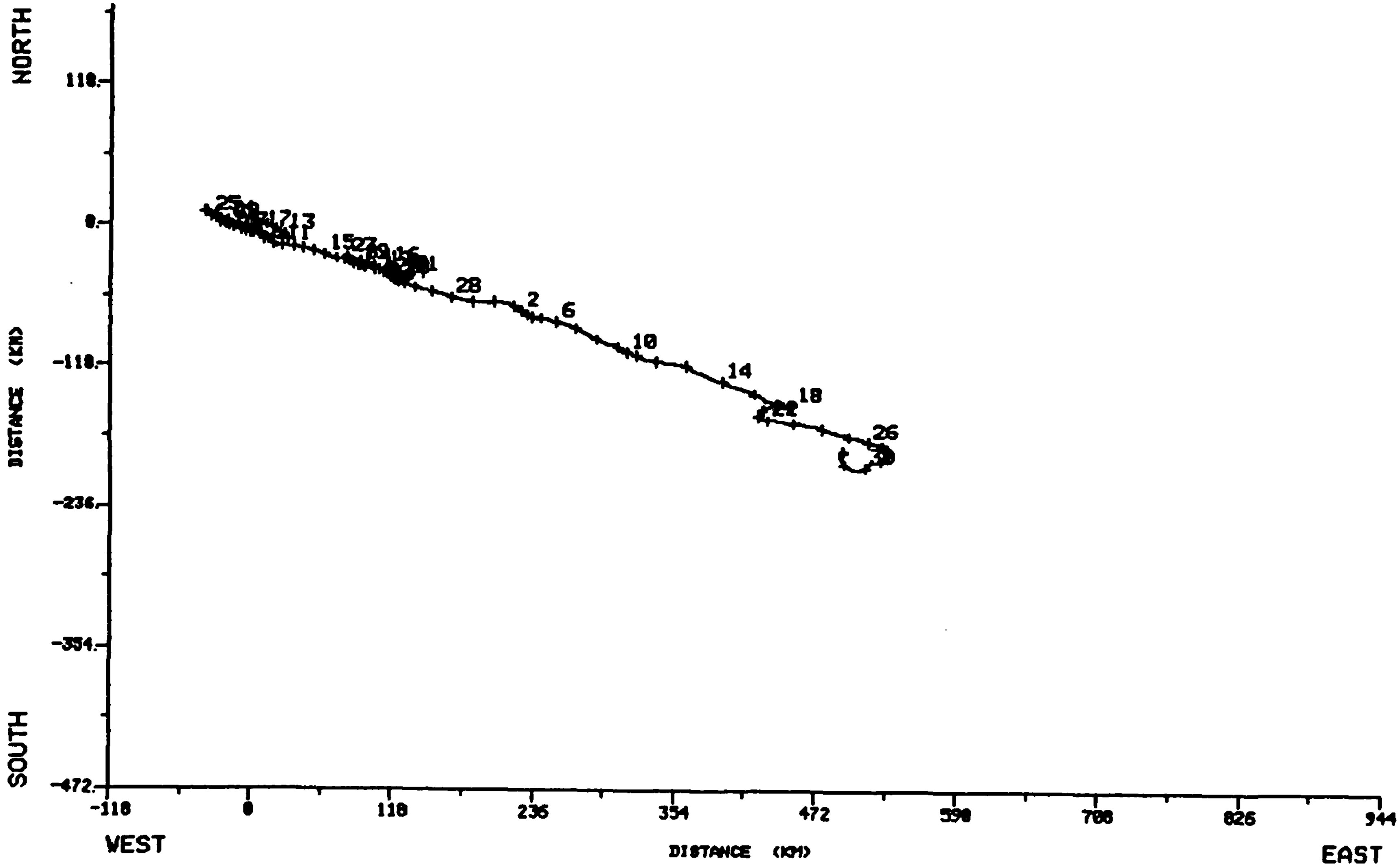
Progressive Vector Diagrams for USCG Current Meters.

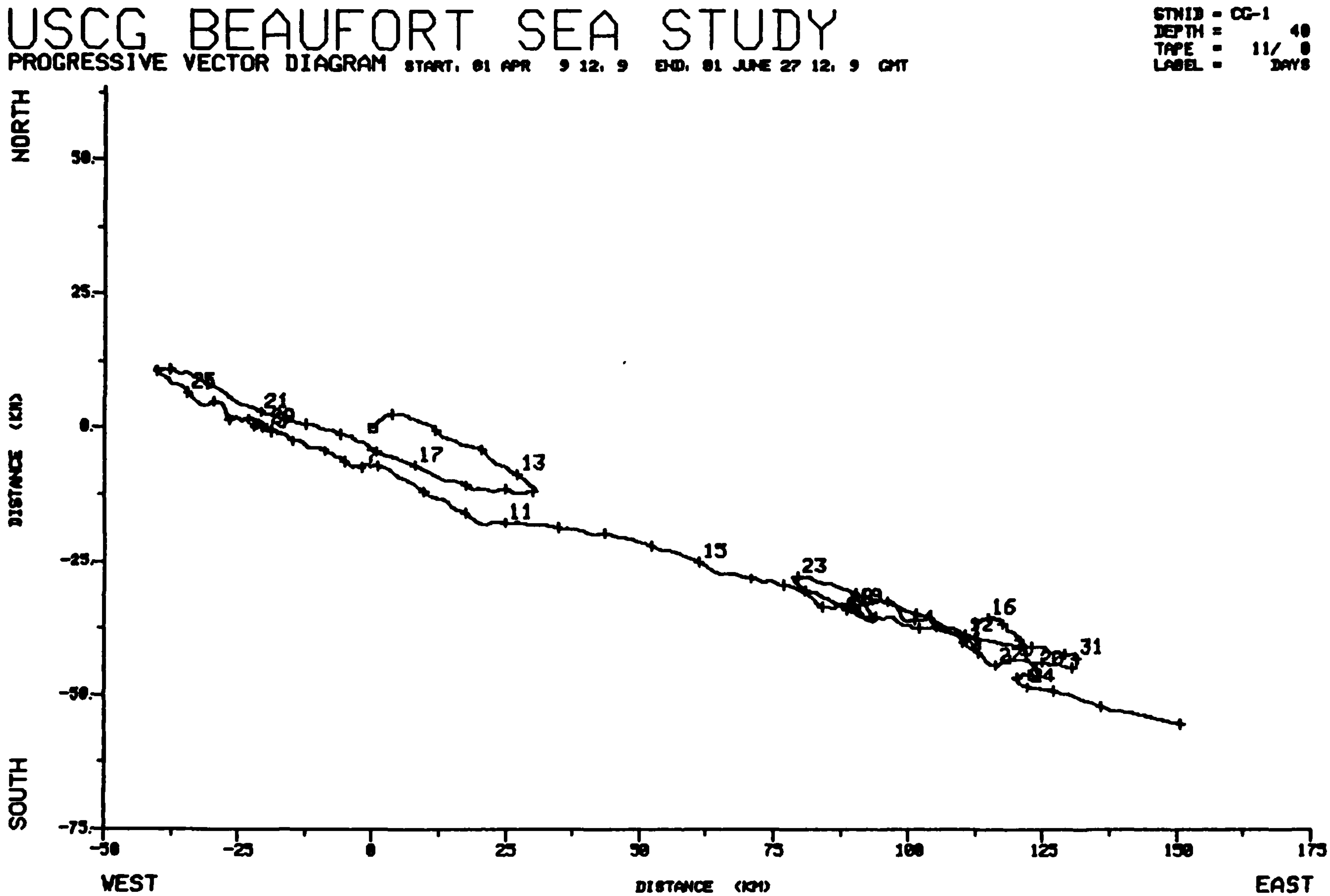
The Congested Region at the Beginning of the Record
is Expanded as a Second PVD. The Period of Expansion
is Shown in the Title.

USCG BEAUFORT SEA STUDY

PROGRESSIVE VECTOR DIAGRAM START, 81 APR 9 12, 9 END, 81 AUG 1 17,54 GMT

STNID = CG-1
DEPTH = 40
TAPE = 11/ 8
LABEL = DAYS

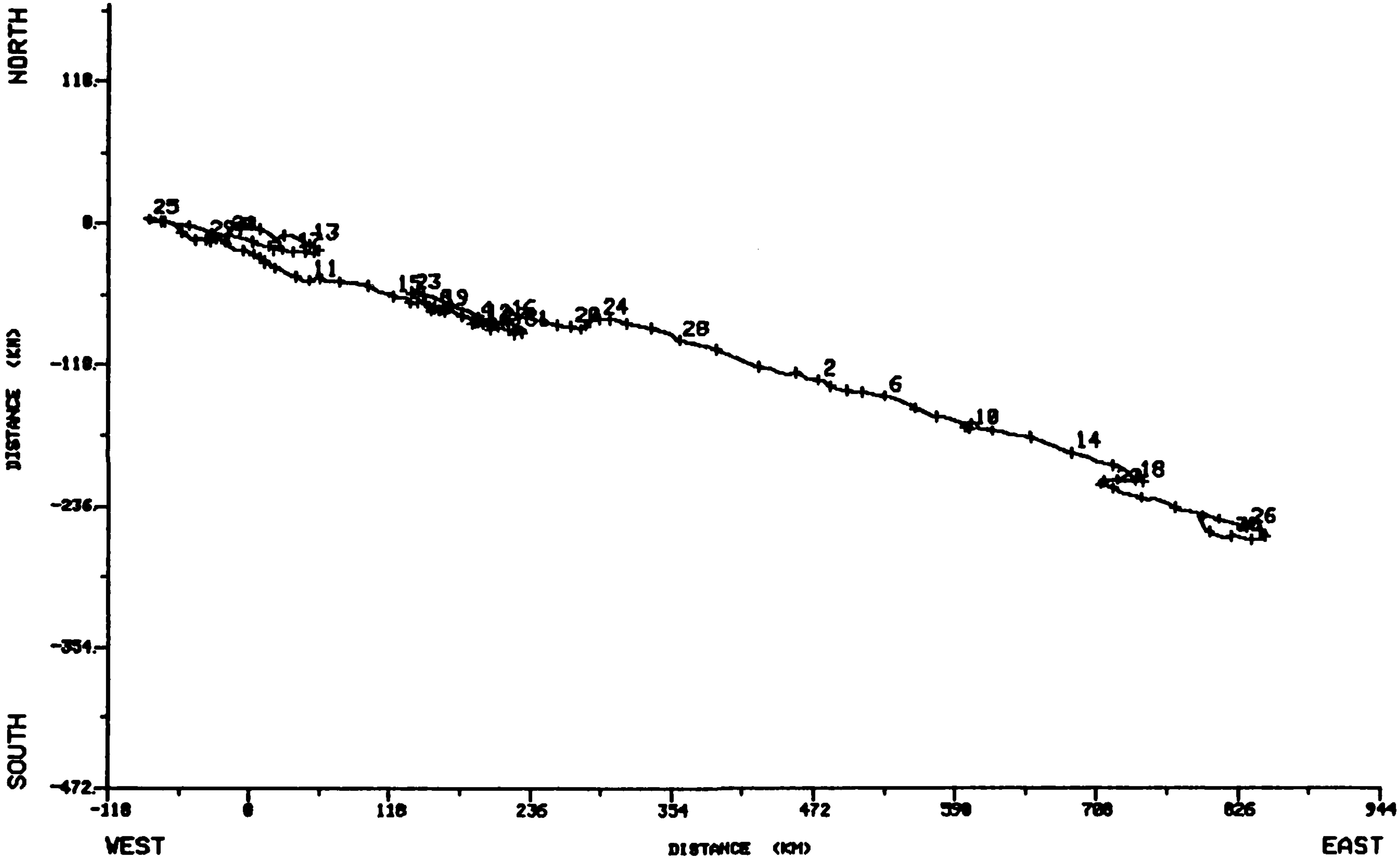



USCG BEAUFORT SEA STUDY
PROGRESSIVE VECTOR DIAGRAM START. 81 APR 9 12. 9 END. 81 JUNE 27 12. 9 GMT
STNID = CG-1
DEPTH = 40
TAPE = 11/ 8
LABEL = DAYS
NORTH
SOUTH
DISTANCE (KM)
50.
25.
0.
-25.
-50.
-75.
-50
-25
0
25
50
75
100
125
150
175
WEST
EAST
DISTANCE (KM)
25
21
17
13
11
15
23
16
31
24

USCG BEAUFORT SEA STUDY

PROGRESSIVE VECTOR DIAGRAM START. 81 APR 9 12.10 END. 81 AUG 1 17.55 GMT

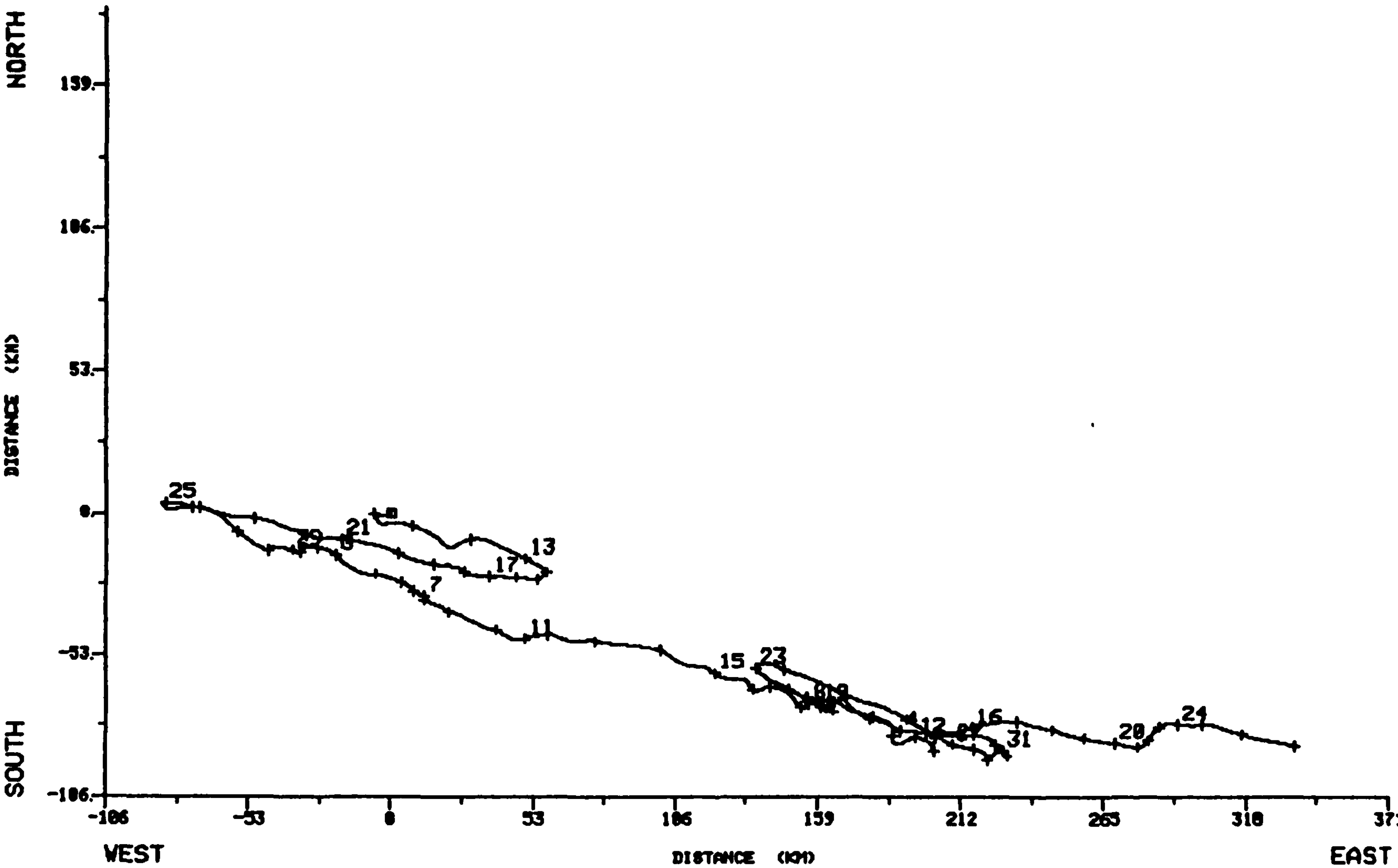
STNID = CG-1
DEPTH = 150
TAPE = 12/ 8
LABEL = DAYS



USCG BEAUFORT SEA STUDY

PROGRESSIVE VECTOR DIAGRAM START, 01 APR 9 12.10 END, 01 JUNE 27 12.10 GMT

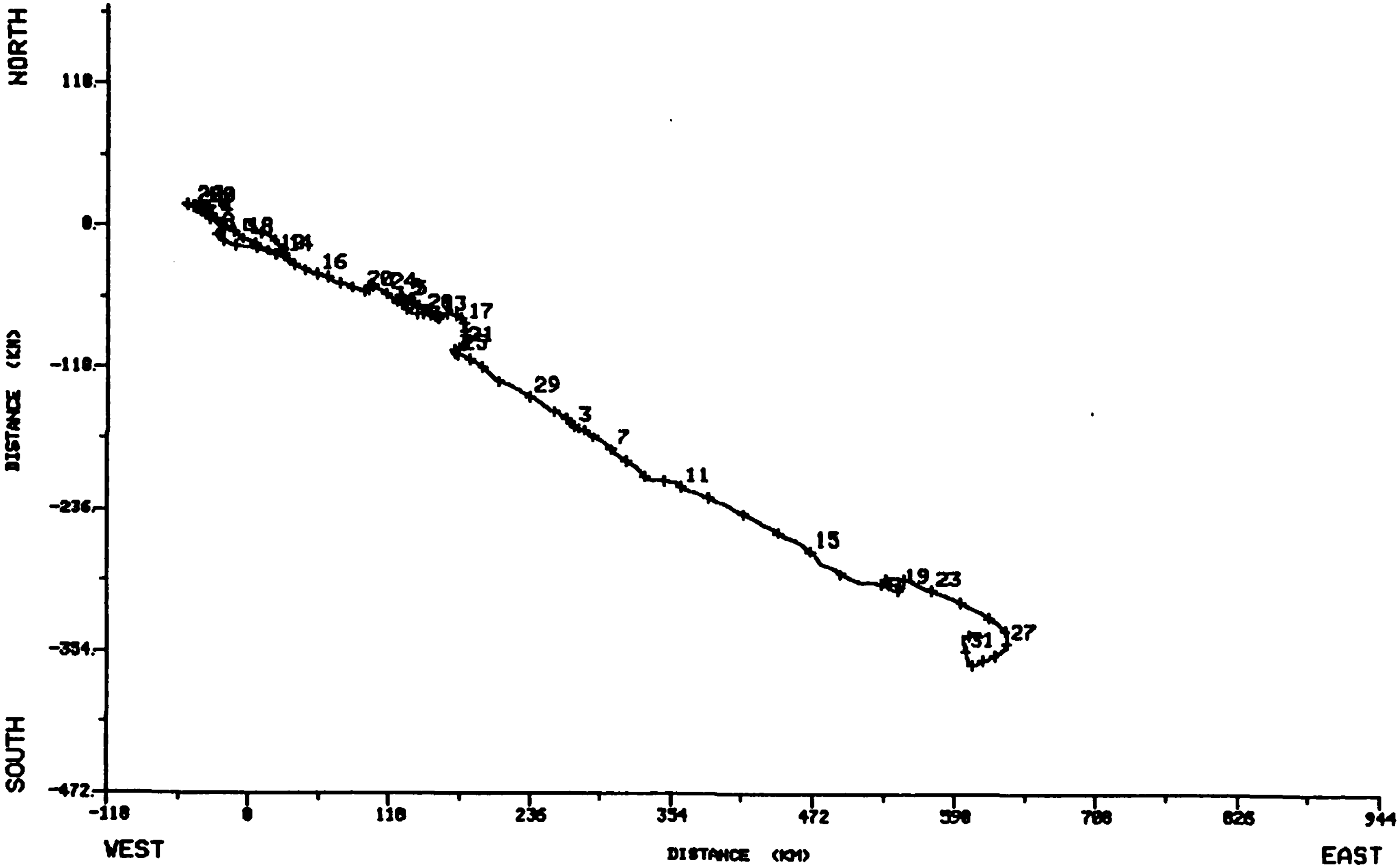
STNID = CG-1
DEPTH = 150
TAPE = 12/ 0
LABEL = DAYS

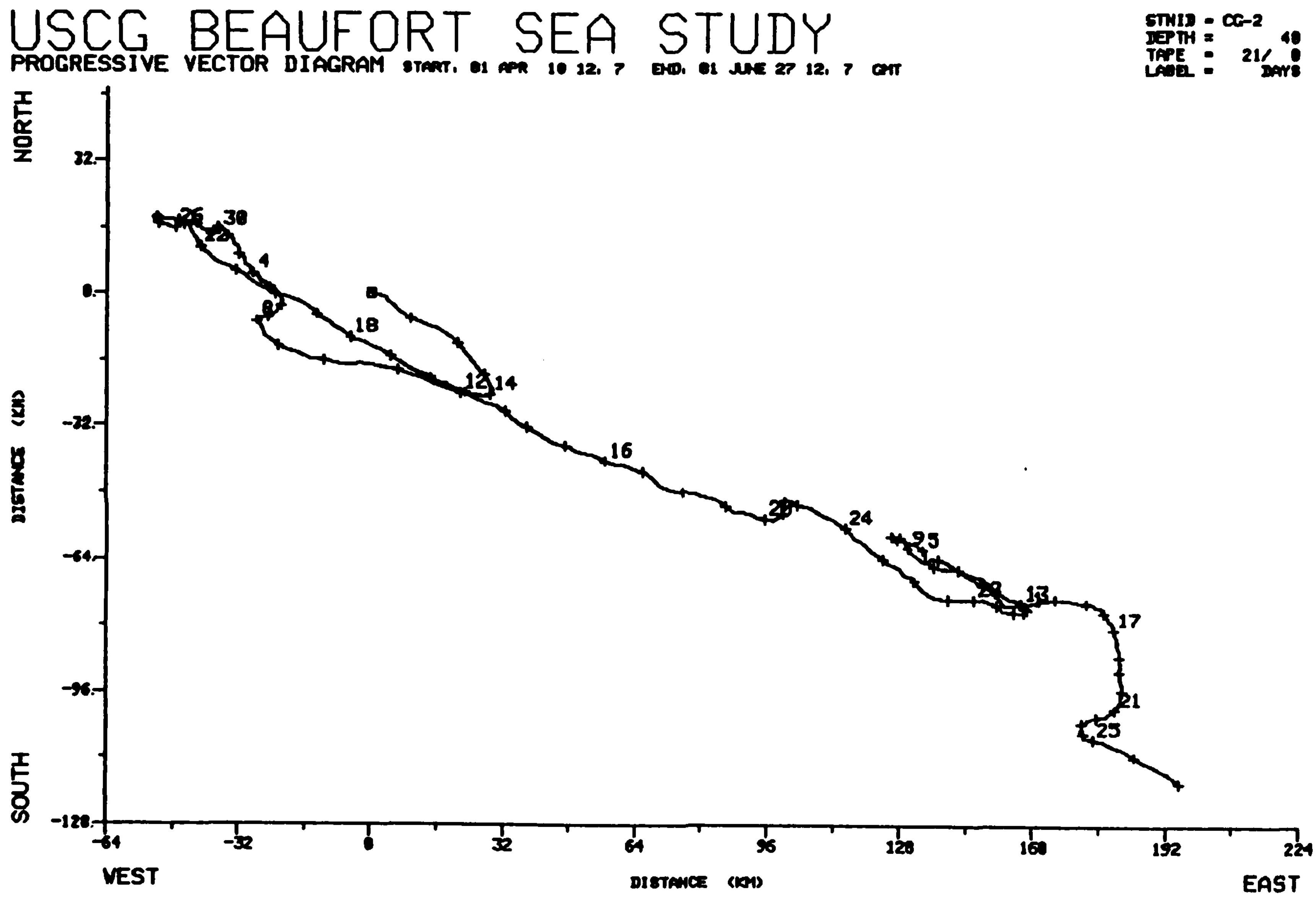


USCG BEAUFORT SEA STUDY

PROGRESSIVE VECTOR DIAGRAM START: 81 APR 10 12: 7 END: 81 AUG 1 22:52 GMT

STNID = CG-2
DEPTH = 40
TAPE = 21/ 8
LABEL = DAYS



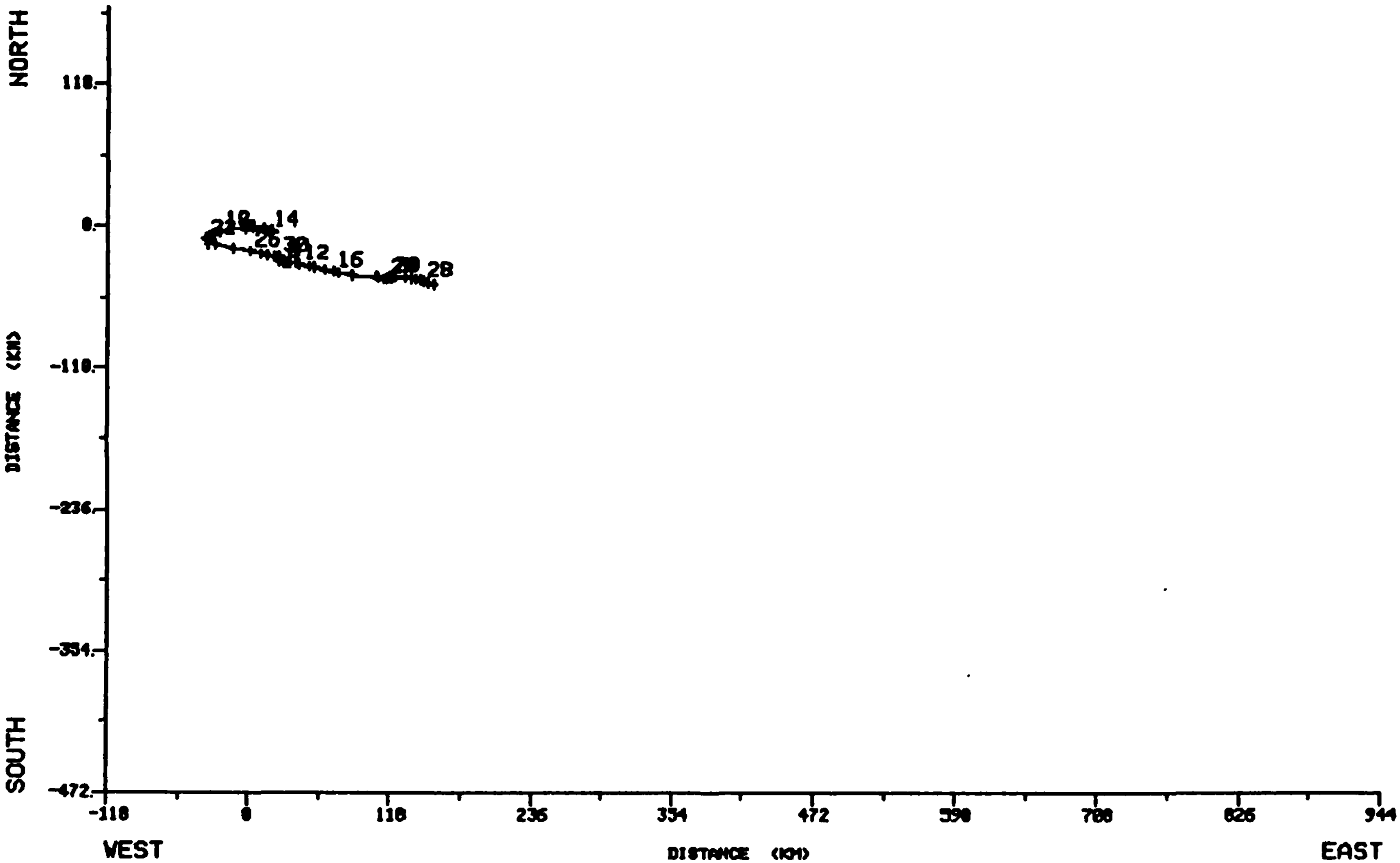


USCG BEAUFORT SEA STUDY
PROGRESSIVE VECTOR DIAGRAM START, 81 APR 10 12. 7 END, 81 JUNE 27 12. 7 GMT
STNID = CG-2
DEPTH = 40
TAPE = 21/ 0
LABEL = DAYS
NORTH
SOUTH
WEST
EAST
DISTANCE (KM)
DISTANCE (KM)
32.
0.
-32.
-64.
-96.
-128.
-64
-32
0
32
64
96
128
160
192
224
26
30
22
4
8
18
12
14
16
20
24
5
17
21
25

USCG BEAUFORT SEA STUDY

PROGRESSIVE VECTOR DIAGRAM START, 81 APR 10 12. 0 END, 81 JUNE 3 2.30 GMT

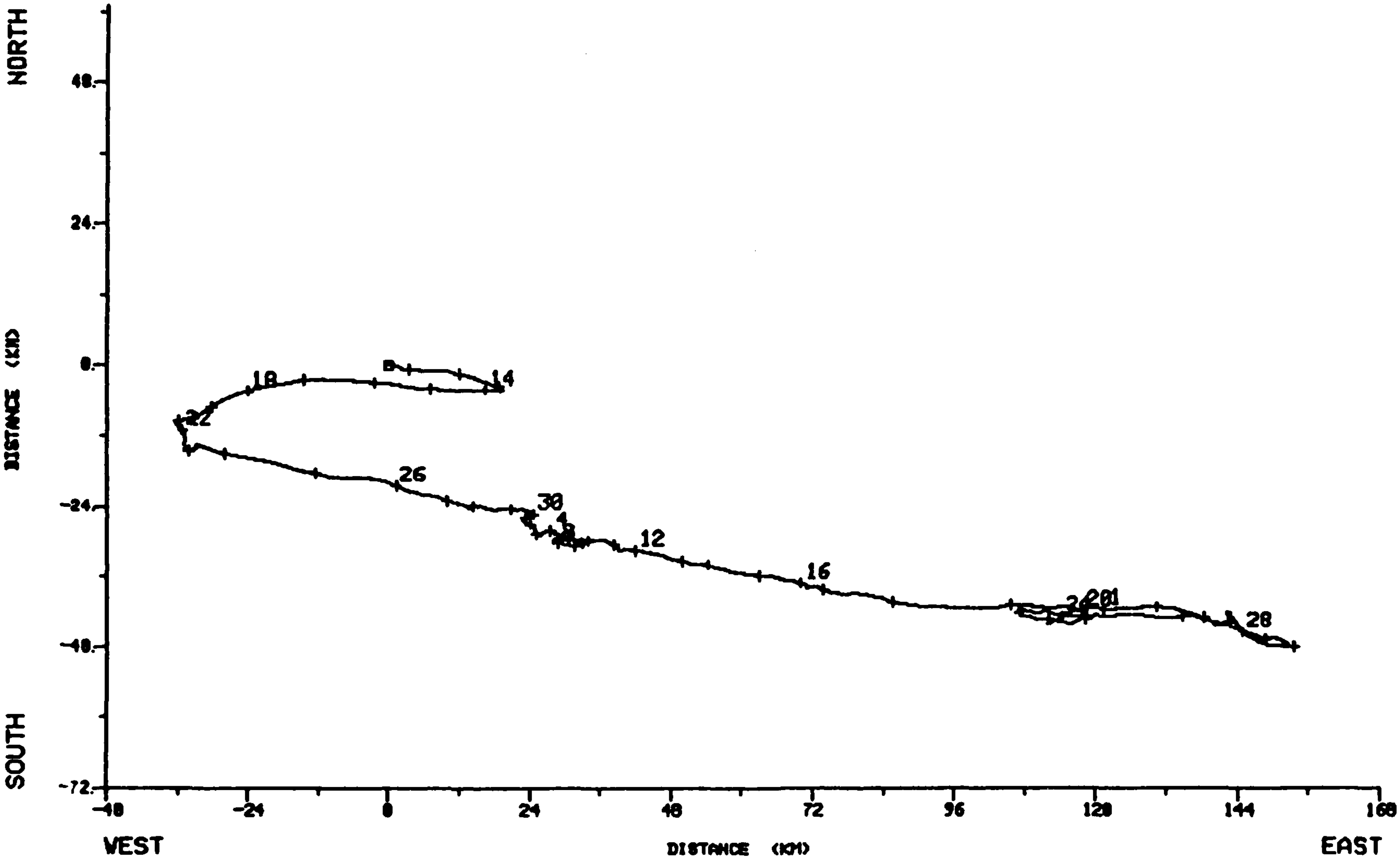
STNID = CG-2
DEPTH = 268
TAPE = 22/ 8
LABEL = DAYS



USCG BEAUFORT SEA STUDY

PROGRESSIVE VECTOR DIAGRAM START. 81 APR 10 12. 0 END. 81 JUNE 3 2.30 GMT

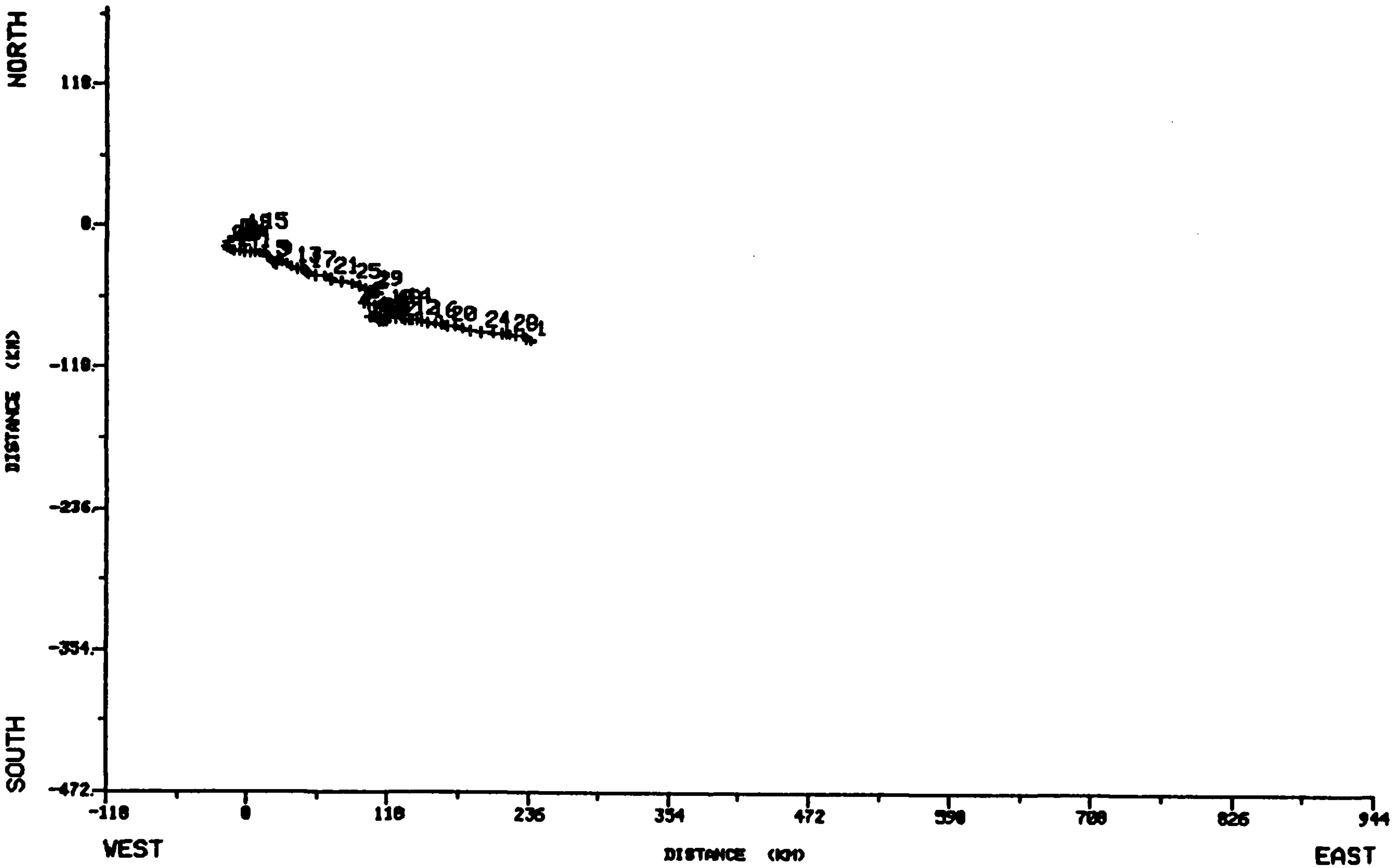
STNID = CG-2
DEPTH = 268
TAPE = 22/ 0
LABEL = DAYS



USCG BEAUFORT SEA STUDY

PROGRESSIVE VECTOR DIAGRAM START. 81 APR 11 18. 7 END. 81 AUG 2 1.52 GMT

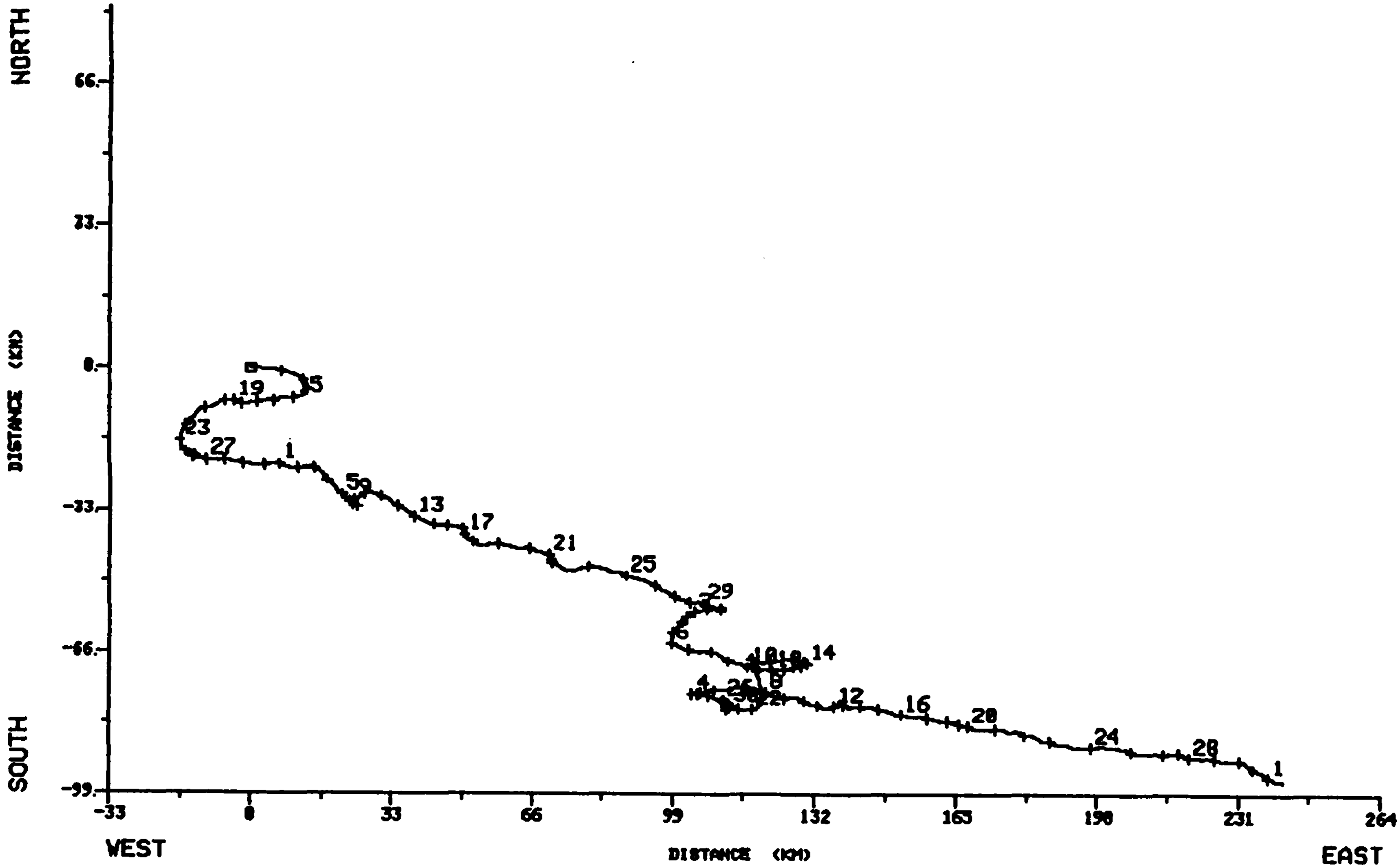
STNID = CG-3
DEPTH = 268
TAPE = 32/ 8
LABEL = DAYS



USCG BEAUFORT SEA STUDY

PROGRESSIVE VECTOR DIAGRAM START. 81 APR 11 18. 7 END. 81 AUG 2 1.52 GMT

STNID = CG-3
DEPTH = 268
TAPE = 32/ 8
LABEL = DAYS



DATA APPENDIX 8

Tidal Stream Analyses for USCG Current Meters

The amplitudes of the semi-major and semi-minor axes of the tidal ellipses are shown. INC is the inclination in degrees of the northern semi-major axis counter-clockwise from east. G. is the Greenwich phase of the rotating velocity vector. G+ is the Greenwich phase of the anti-clockwise rotating vector of constant magnitude which added to the clockwise rotating vector of constant magnitude yields the tidal ellipse. G- is the Greenwich phase of the clockwise rotating vector of constant magnitude.

USCG BEAUFORT SEA STUDY

ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
AMPLITUDES HAVE BEEN SCALED ACCORDING TO APPLIED FILTERS

STN: CG-11 LAT: 70 53 0.0 N
DEPTH: 40 M LONG: 145 55 0.0 W
START: 1300Z 9/ 4/81 END: 1700Z 1/ 8/81

	NAME	FREQUENCY (CY/HR)	MAJOR (CM/S)	MINOR (CM/S)	INC	G	G+	G-
1	Z0	0.00000000	5.263	0.000	159.1	180.0	20.9	339.1
2	MM	0.00151215	0.618	-0.080	143.4	94.7	311.3	238.0
3	MSF	0.00282193	6.645	0.120	163.8	35.4	231.5	199.2
4	ALP1	0.03439657	0.261	-0.196	21.7	138.0	116.2	159.7
5	2Q1	0.03570635	0.440	-0.213	146.6	316.7	170.1	103.3
6	Q1	0.03721850	0.397	-0.164	106.7	18.7	272.1	125.4
7	O1	0.03873065	0.488	-0.395	109.0	173.5	64.5	282.6
8	NO1	0.04026859	0.245	-0.037	9.9	53.9	44.0	63.9
9	K1	0.04178075	0.138	-0.097	31.7	298.3	266.6	330.1
10	J1	0.04329290	0.267	0.028	2.6	123.5	120.9	126.1
11	OO1	0.04483084	0.143	0.005	41.3	105.8	64.4	147.1
12	UPS1	0.04634299	0.275	-0.070	16.7	247.0	230.3	263.8
13	EPS2	0.07617732	0.276	-0.142	139.4	270.0	130.6	49.4
14	MU2	0.07768947	0.378	-0.192	90.3	119.7	29.4	210.0
15	N2	0.07899925	0.090	0.016	1.2	3.8	2.6	5.0
16	M2	0.08051140	1.044	-0.916	81.9	3.6	281.7	85.5
17	L2	0.08202355	0.117	0.050	72.3	43.6	331.3	115.9
18	S2	0.08333333	0.362	-0.291	81.5	101.2	19.8	182.7
19	ETA2	0.08507364	0.389	-0.115	63.3	225.6	162.3	288.9
20	MO3	0.11924206	0.193	-0.100	57.4	325.4	268.0	22.9
21	M3	0.12076710	0.121	-0.079	151.4	42.1	250.7	193.5
22	MK3	0.12229215	0.039	-0.024	77.5	163.3	85.8	240.9
23	SK3	0.12511408	0.080	0.013	88.9	84.5	355.6	173.5
24	MN4	0.15951066	0.070	-0.042	38.7	118.4	79.7	157.1
25	M4	0.16102280	0.046	-0.009	110.8	187.1	76.3	297.9
26	SN4	0.16233258	0.097	-0.036	94.8	11.2	276.4	105.9
27	MS4	0.16384473	0.092	-0.033	120.1	223.5	103.3	343.6
28	S4	0.16666667	0.069	0.010	1.8	61.0	59.2	62.8
29	2MK5	0.20280355	0.037	0.028	94.4	130.5	36.1	224.9
30	2SK5	0.20844741	0.048	-0.001	179.4	106.4	286.9	285.8
31	2MN6	0.24002205	0.036	-0.014	44.1	172.8	128.7	216.9
32	M6	0.24153420	0.061	-0.008	96.3	336.2	239.8	72.5
33	2MS6	0.24435613	0.064	-0.013	52.5	27.4	334.9	80.0
34	2SM6	0.24717806	0.041	-0.025	124.7	290.7	166.1	55.4
35	3MK7	0.28331494	0.015	0.005	97.5	61.7	324.3	159.2
36	M8	0.32204559	0.058	-0.029	107.2	279.2	172.0	26.5

USCG BEAUFORT SEA STUDY

ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
AMPLITUDES HAVE BEEN SCALED ACCORDING TO APPLIED FILTERS

STN: CG-12 LAT: 70 53 0.0 N
DEPTH: 150 M LONG: 145 55 0.0 W
START: 1300Z 9/ 4/81 END: 1700Z 1/ 8/81

	NAME	FREQUENCY (CY/HR)	MAJOR (CM/S)	MINOR (CM/S)	INC	G	G+	G-
1	Z0	0.00000000	8.184	0.000	163.0	180.0	17.0	343.0
2	MM	0.00151215	1.981	-0.355	154.1	160.1	6.0	314.3
3	MSF	0.00282193	10.231	0.010	163.5	45.4	241.9	208.9
4	ALP1	0.03439657	0.795	0.109	61.1	4.7	303.6	65.8
5	2Q1	0.03570635	0.610	0.110	95.5	38.4	302.9	133.9
6	Q1	0.03721850	0.350	-0.171	32.9	134.5	101.6	167.5
7	O1	0.03873065	0.888	-0.495	178.2	106.0	287.8	284.2
8	NO1	0.04026859	0.611	-0.426	30.9	132.8	101.9	163.7
9	K1	0.04178075	0.179	-0.163	59.3	234.8	175.6	294.1
10	J1	0.04329290	0.291	0.048	106.0	283.9	177.9	29.8
11	OO1	0.04483084	0.650	-0.269	118.8	70.1	311.2	188.9
12	UPS1	0.04634299	0.539	-0.268	178.5	66.5	248.1	245.0
13	EPS2	0.07617732	0.269	-0.175	31.4	237.5	206.1	268.9
14	MU2	0.07768947	0.391	-0.281	71.3	46.3	335.0	117.6
15	N2	0.07899925	0.159	0.017	72.3	103.3	31.0	175.6
16	M2	0.08051140	0.676	-0.304	114.9	276.6	161.7	31.5
17	L2	0.08202355	0.421	-0.088	142.9	242.2	99.3	25.2
18	S2	0.08333333	0.423	-0.012	64.2	49.8	345.6	114.0
19	ETA2	0.08507364	0.237	-0.046	91.9	150.5	58.6	242.4
20	MO3	0.11924206	0.169	-0.032	37.6	53.6	16.1	91.2
21	M3	0.12076710	0.105	-0.027	94.6	11.9	277.2	106.5
22	MK3	0.12229215	0.101	0.012	83.3	215.1	131.8	298.5
23	SK3	0.12511408	0.255	-0.094	61.2	31.8	330.6	93.0
24	MN4	0.15951066	0.083	0.035	95.1	85.5	350.5	180.6
25	M4	0.16102280	0.155	-0.026	43.4	267.2	223.8	310.6
26	SN4	0.16233258	0.155	-0.021	86.6	348.8	262.2	75.4
27	MS4	0.16384473	0.079	-0.013	78.1	55.2	337.1	133.3
28	S4	0.16666667	0.074	-0.004	151.7	94.1	302.4	245.8
29	2MK5	0.20280355	0.059	0.007	89.2	18.2	289.0	107.5
30	2SK5	0.20844741	0.062	0.019	126.8	5.8	239.0	132.6
31	2MN6	0.24002205	0.074	0.007	150.8	50.5	259.7	201.4
32	M6	0.24153420	0.076	-0.019	154.2	178.4	24.2	332.6
33	2MS6	0.24435613	0.060	-0.013	38.1	54.6	16.5	92.7
34	2SM6	0.24717806	0.040	0.015	83.1	338.2	255.1	61.3
35	3MK7	0.28331494	0.040	0.018	155.3	71.1	275.8	226.4
36	M8	0.32204559	0.073	-0.020	62.5	218.6	156.1	281.1

USCG BEAUFORT SEA STUDY

ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
AMPLITUDES HAVE BEEN SCALED ACCORDING TO APPLIED FILTERS

STN: CG-21 LAT: 70 56 0.0 N
DEPTH: 40 M LONG: 146 1 0.0 W
START: 1300Z 10/ 4/81 END: 2200Z 1/ 8/81

	NAME	FREQUENCY (CY/HR)	MAJOR (CM/S)	MINOR (CM/S)	INC	G	G+	G-
1	Z0	0.00000000	7.042	0.000	151.2	180.0	28.8	331.2
2	MM	0.00151215	2.440	-0.719	173.9	46.5	232.6	220.4
3	MSF	0.00282193	6.453	-0.110	149.6	46.3	256.8	195.9
4	ALP1	0.03439657	0.583	-0.120	136.7	20.3	243.6	156.9
5	2Q1	0.03570635	0.324	0.122	1.6	86.2	84.6	87.7
6	Q1	0.03721850	0.400	0.310	128.9	356.1	227.2	125.0
7	O1	0.03873065	0.144	-0.050	69.6	181.5	111.9	251.2
8	NO1	0.04026859	0.370	0.081	53.1	305.3	252.2	358.3
9	K1	0.04178075	0.301	0.070	65.5	171.2	105.7	236.7
10	J1	0.04329290	0.360	-0.103	155.2	294.2	139.0	89.4
11	OO1	0.04483084	0.282	0.096	107.0	115.6	8.6	222.7
12	UPS1	0.04634299	0.325	0.104	140.3	115.2	334.9	255.4
13	EPS2	0.07617732	0.208	-0.082	47.7	313.4	265.7	1.1
14	MU2	0.07768947	0.362	-0.132	127.1	330.3	203.1	97.4
15	N2	0.07899925	0.092	-0.061	61.0	235.7	174.7	296.7
16	M2	0.08051140	0.938	-0.813	68.3	13.5	305.2	81.8
17	L2	0.08202355	0.149	-0.081	138.3	279.1	140.8	57.4
18	S2	0.08333333	0.379	-0.234	43.0	80.8	37.8	123.8
19	ETA2	0.08507364	0.130	-0.085	177.4	80.2	262.8	257.6
20	MO3	0.11924206	0.168	-0.109	127.6	68.7	301.1	196.3
21	M3	0.12076710	0.162	-0.021	28.0	283.2	255.2	311.2
22	MK3	0.12229215	0.098	0.025	29.2	23.0	353.8	52.1
23	SK3	0.12511408	0.063	-0.049	78.5	142.2	63.6	220.7
24	MN4	0.15951066	0.032	0.023	128.4	65.6	297.3	194.0
25	M4	0.16102280	0.104	0.051	165.1	262.0	96.9	67.0
26	SN4	0.16233258	0.026	-0.004	91.4	254.2	162.8	345.6
27	MS4	0.16384473	0.100	-0.052	101.3	137.5	36.2	238.8
28	S4	0.16666667	0.111	-0.013	48.2	74.0	25.8	122.3
29	2MK5	0.20280355	0.054	0.034	22.5	61.7	39.2	84.2
30	2SK5	0.20844741	0.063	-0.030	23.7	83.2	59.4	106.9
31	2MN6	0.24002205	0.103	-0.035	123.1	270.6	147.5	33.7
32	M6	0.24153420	0.063	-0.034	152.9	39.8	246.9	192.6
33	2MS6	0.24435613	0.041	0.002	116.8	185.3	68.5	302.2
34	2SM6	0.24717806	0.040	0.020	123.7	202.3	78.6	326.0
35	3MK7	0.28331494	0.051	-0.003	164.1	359.8	195.7	163.9
36	M8	0.32204559	0.056	0.000	0.7	119.0	118.4	119.7

USCG BEAUFORT SEA STUDY

ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
AMPLITUDES HAVE BEEN SCALED ACCORDING TO APPLIED FILTERS

STN: CG-22 LAT: 70 56 0.0 N
DEPTH: 268 M LONG: 146 1 0.0 W
START: 1300Z 10/ 4/81 END: 200Z 3/ 6/81

	NAME	FREQUENCY (CY/HR)	MAJOR (CM/S)	MINOR (CM/S)	INC	G	G+	G-
1	ZO	0.00000000	2.565	0.000	158.3	180.0	21.7	338.3
2	MM	0.00151215	3.920	0.408	171.6	47.4	235.8	219.0
3	MSF	0.00282193	4.766	0.184	178.6	339.0	160.4	157.6
4	ALP1	0.03439657	0.293	-0.077	79.2	24.8	305.6	104.0
5	2Q1	0.03570635	0.366	0.116	105.9	283.7	177.8	29.7
6	Q1	0.03721850	0.317	-0.052	168.5	194.9	26.4	3.3
7	O1	0.03873065	0.238	-0.128	56.0	250.4	194.4	306.4
8	NO1	0.04026859	0.261	0.189	4.4	302.3	297.9	306.8
9	K1	0.04178075	0.224	0.044	30.0	214.7	184.8	244.7
10	J1	0.04329290	0.485	-0.141	152.0	293.7	141.7	85.6
11	OO1	0.04483084	0.359	-0.126	171.7	177.9	6.2	349.6
12	UPS1	0.04634299	0.338	-0.211	171.2	106.8	295.6	278.0
13	EPS2	0.07617732	0.197	-0.023	46.8	60.4	13.6	107.2
14	MU2	0.07768947	0.144	-0.035	148.4	32.0	243.6	180.4
15	N2	0.07899925	0.236	-0.041	177.0	312.4	135.3	129.4
16	M2	0.08051140	0.142	0.051	49.0	215.2	166.2	264.3
17	L2	0.08202355	0.150	0.057	119.5	348.3	228.8	107.8
18	S2	0.08333333	0.094	-0.012	171.9	54.2	242.2	226.1
19	ETA2	0.08507364	0.050	-0.019	85.9	226.3	140.4	312.2
20	MO3	0.11924206	0.066	-0.032	39.7	276.1	236.4	315.9
21	M3	0.12076710	0.118	-0.026	33.2	295.7	262.5	328.8
22	MK3	0.12229215	0.160	0.026	67.0	189.4	122.4	256.4
23	SK3	0.12511408	0.083	0.019	121.6	20.0	258.4	141.6
24	MN4	0.15951066	0.054	-0.003	143.2	88.1	304.9	231.2
25	M4	0.16102280	0.072	-0.021	40.3	143.9	103.6	184.3
26	SN4	0.16233258	0.165	-0.026	15.5	353.7	338.3	9.2
27	MS4	0.16384473	0.111	-0.053	74.4	221.3	146.9	295.8
28	S4	0.16666667	0.095	0.011	94.2	7.8	273.6	102.1
29	2MK5	0.20280355	0.034	-0.009	87.0	356.2	269.2	83.2
30	2SK5	0.20844741	0.036	-0.003	63.2	207.4	144.2	270.6
31	2MN6	0.24002205	0.078	-0.051	44.2	326.8	282.6	11.0
32	M6	0.24153420	0.029	-0.003	27.0	157.4	130.4	184.4
33	2MS6	0.24435613	0.063	-0.026	21.0	344.1	323.0	5.1
34	2SM6	0.24717806	0.026	-0.005	117.9	64.2	306.3	182.0
35	3MK7	0.28331494	0.052	-0.017	33.5	140.4	106.9	173.8
36	M8	0.32204559	0.039	-0.008	32.9	7.6	334.7	40.4

USCG BEAUFORT SEA STUDY

ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
AMPLITUDES HAVE BEEN SCALED ACCORDING TO APPLIED FILTERS

STN: CG-32 LAT: 70 57 0.0 N
DEPTH: 268 M LONG: 146 2 0.0 W
START: 1100Z 11/ 4/81 END: 100Z 2/ 8/81

	NAME	FREQUENCY (CY/HR)	MAJOR (CM/S)	MINOR (CM/S)	INC	G	G+	G-
1	Z0	0.00000000	2.692	0.000	158.2	180.0	21.8	338.2
2	MM	0.00151215	0.497	0.190	175.2	130.2	315.0	305.4
3	MSF	0.00282193	2.218	0.405	179.2	6.6	187.4	185.9
4	ALP1	0.03439657	0.097	-0.037	153.7	282.9	129.2	76.5
5	2Q1	0.03570635	0.127	0.031	112.2	244.3	132.1	356.6
6	Q1	0.03721850	0.190	0.011	167.2	113.7	306.5	281.0
7	O1	0.03873065	0.234	-0.098	75.1	253.4	178.3	328.5
8	NO1	0.04026859	0.156	-0.028	79.3	285.7	206.4	5.0
9	K1	0.04178075	0.116	-0.028	46.4	129.7	83.3	176.1
10	J1	0.04329290	0.135	-0.105	20.9	140.5	119.6	161.4
11	OO1	0.04483084	0.191	-0.030	102.7	223.6	120.9	326.4
12	UPS1	0.04634299	0.059	-0.013	176.2	115.7	299.5	291.9
13	EPS2	0.07617732	0.156	-0.026	15.4	166.1	150.7	181.5
14	MU2	0.07768947	0.118	0.009	56.3	194.1	137.8	250.4
15	N2	0.07899925	0.084	-0.042	3.2	350.2	347.1	353.4
16	M2	0.08051140	0.108	0.007	81.3	311.2	229.9	32.6
17	L2	0.08202355	0.056	0.031	41.9	27.1	345.2	69.1
18	S2	0.08333333	0.096	-0.025	120.8	282.7	162.0	43.5
19	ETA2	0.08507364	0.127	-0.096	94.6	164.7	70.1	259.3
20	MO3	0.11924206	0.020	-0.010	141.2	18.5	237.3	159.7
21	M3	0.12076710	0.042	-0.031	122.3	130.0	7.7	252.3
22	MK3	0.12229215	0.076	-0.020	115.8	335.2	219.3	91.0
23	SK3	0.12511408	0.036	-0.010	125.5	155.6	30.0	281.1
24	MN4	0.15951066	0.051	-0.036	171.0	139.4	328.4	310.4
25	M4	0.16102280	0.053	0.000	179.3	162.9	343.7	342.2
26	SN4	0.16233258	0.068	-0.017	15.5	140.4	124.9	156.0
27	MS4	0.16384473	0.029	0.017	131.8	241.7	109.9	13.5
28	S4	0.16666667	0.056	0.025	137.4	116.7	339.3	254.1
29	2MK5	0.20280355	0.025	-0.003	11.3	38.3	26.9	49.6
30	2SK5	0.20844741	0.013	0.007	13.0	128.5	115.6	141.5
31	2MN6	0.24002205	0.029	0.007	165.6	256.7	91.1	62.3
32	M6	0.24153420	0.031	-0.014	162.8	269.8	107.0	72.6
33	2MS6	0.24435613	0.027	0.009	180.0	139.3	319.3	319.3
34	2SM6	0.24717806	0.028	0.004	160.7	134.5	333.8	295.3
35	3MK7	0.28331494	0.032	-0.024	89.3	67.8	338.5	157.1
36	M8	0.32204559	0.028	-0.009	116.5	286.9	170.4	43.5

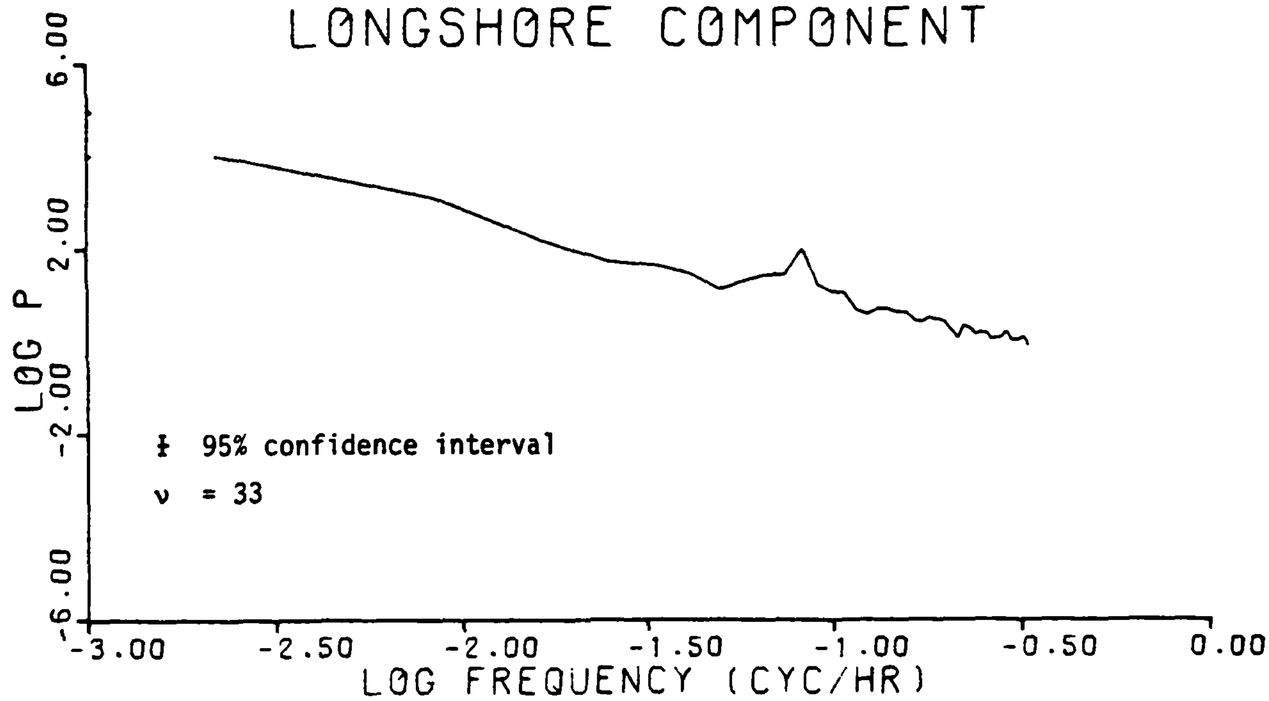
DATA APPENDIX 9

Power Spectra of Longshore and Offshore Velocity Components

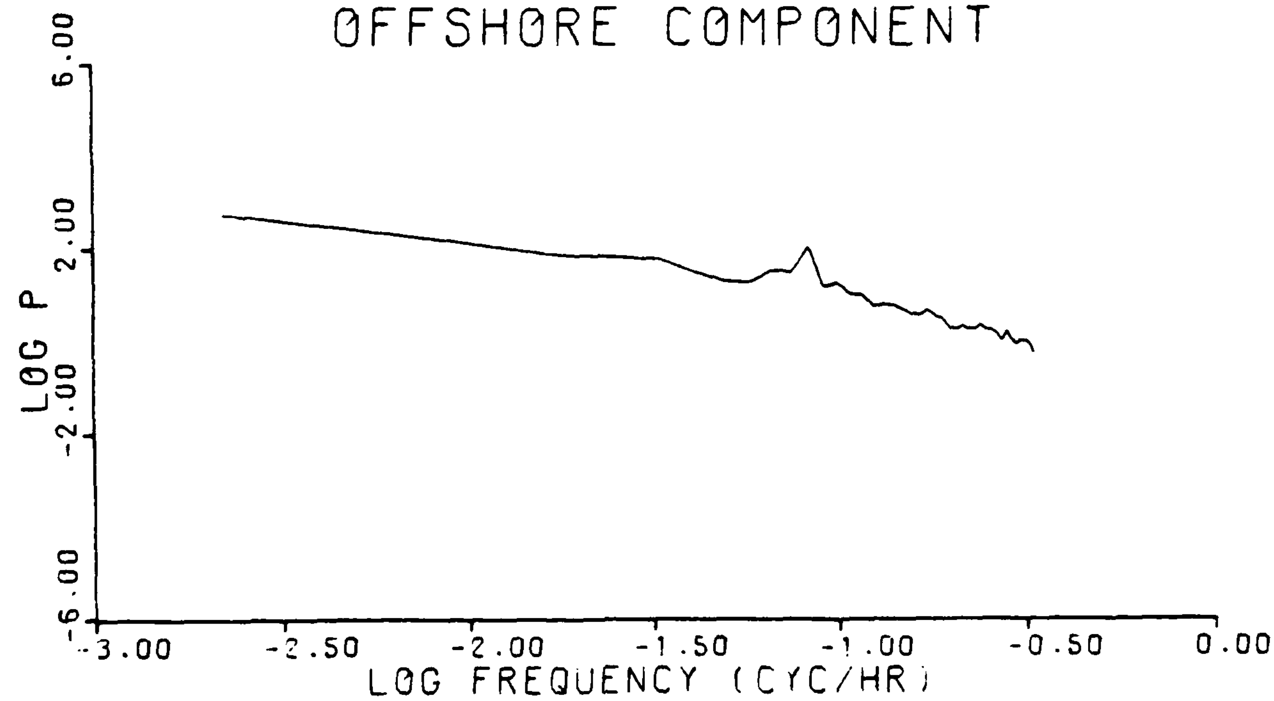
P in $cm^2 \ s^{-2} \ (Cph)^{-1}$

POWER SPECTRA
CG-1 TOP

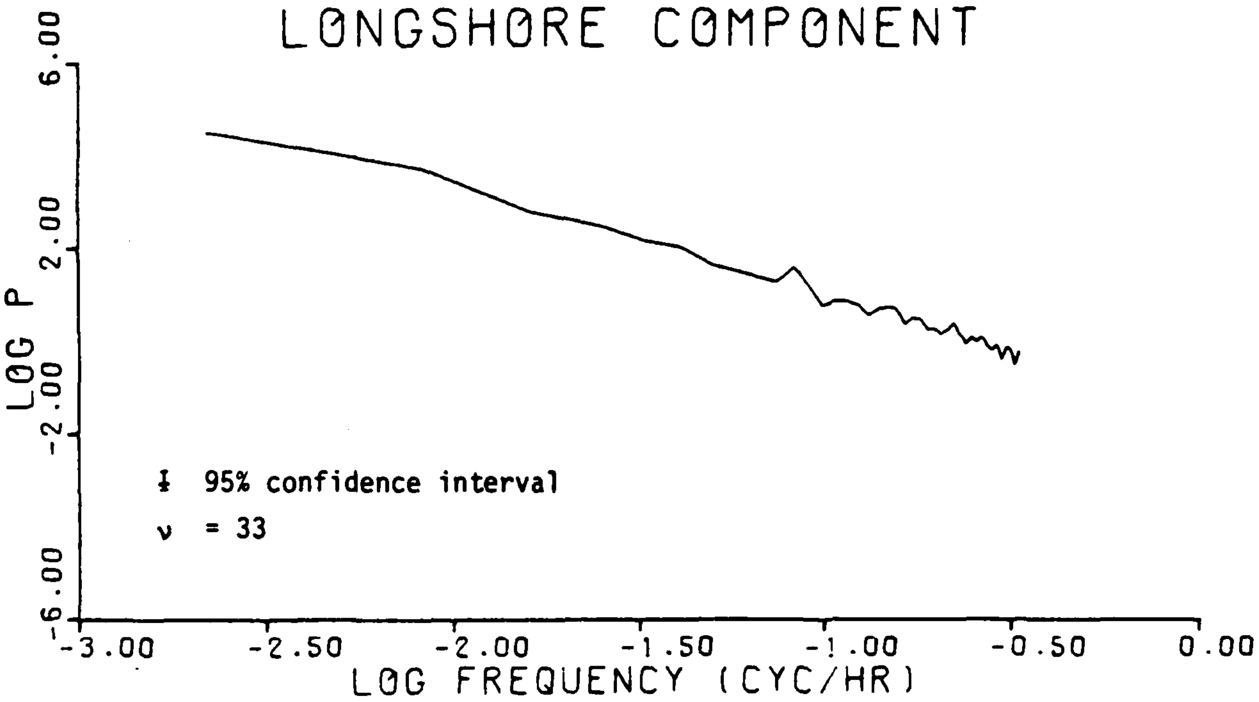
LONGSHORE COMPONENT

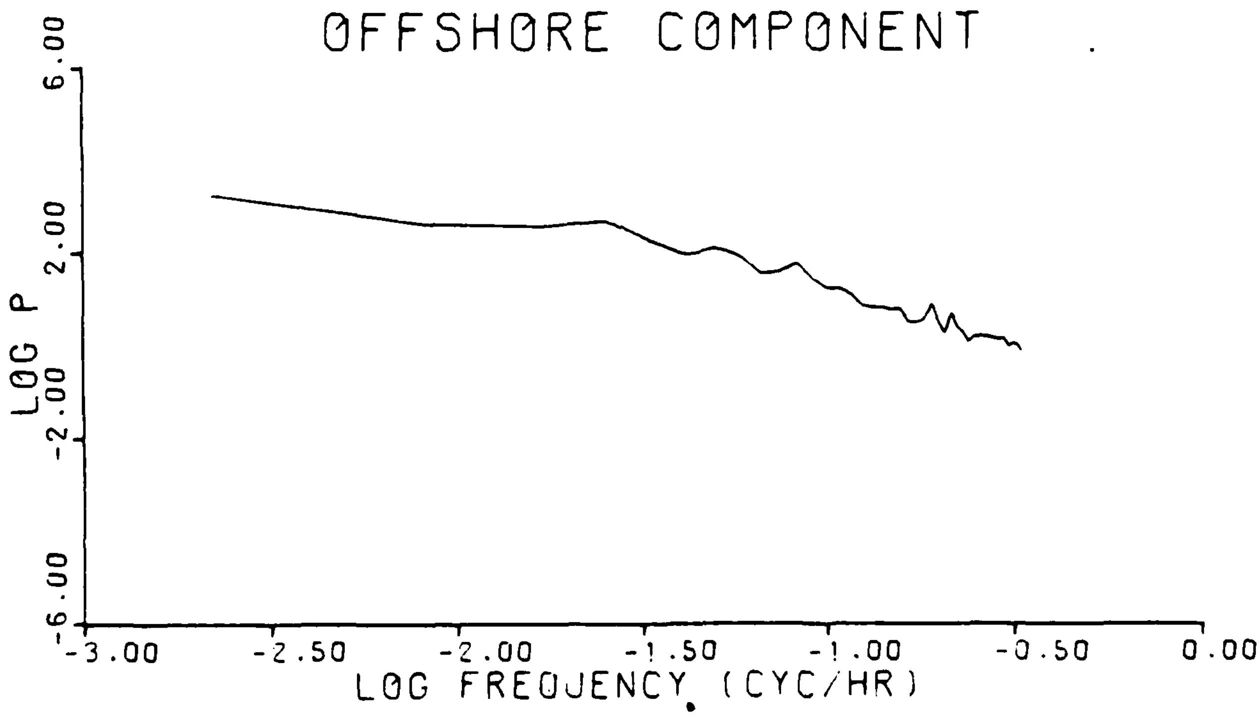


OFFSHORE COMPONENT



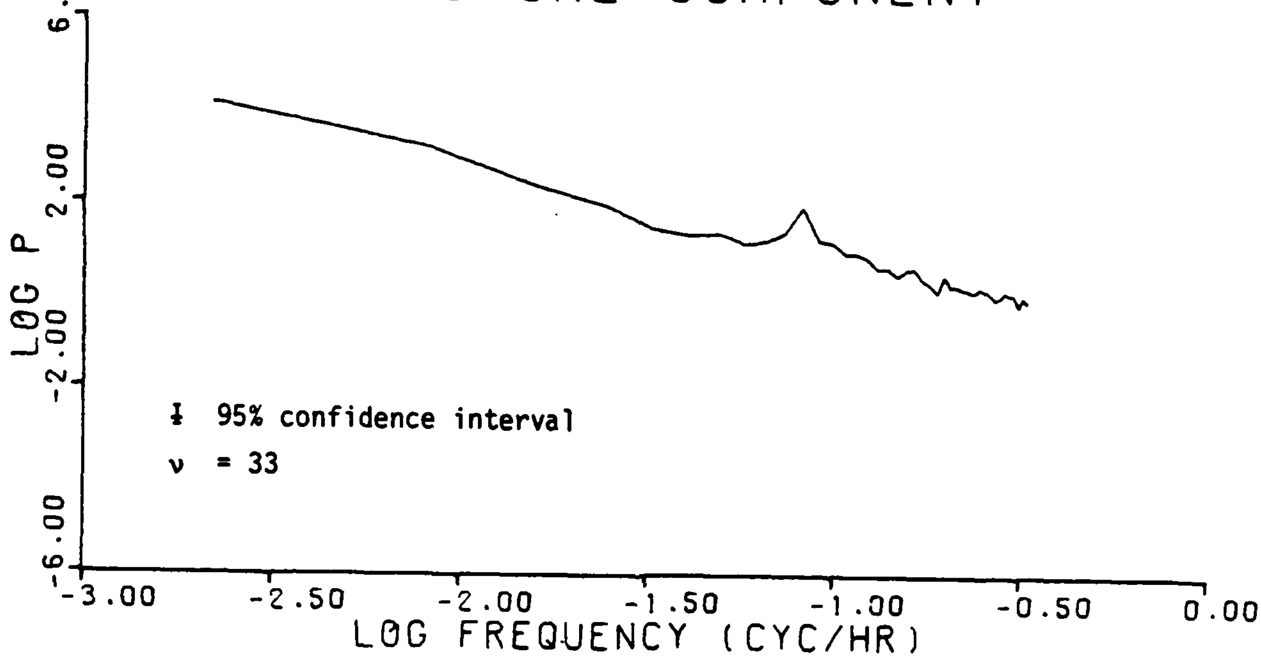
POWER SPECTRA
CG-1 BOTTOM



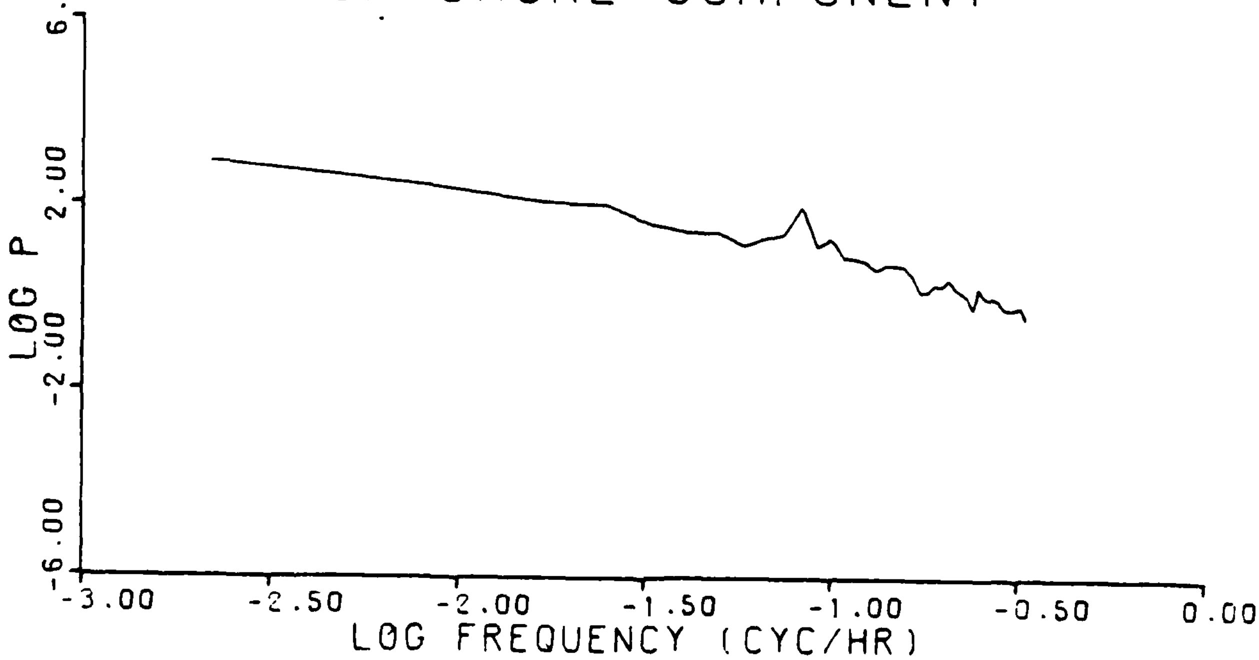


POWER SPECTRA
CG-2 TOP

LONGSHORE COMPONENT

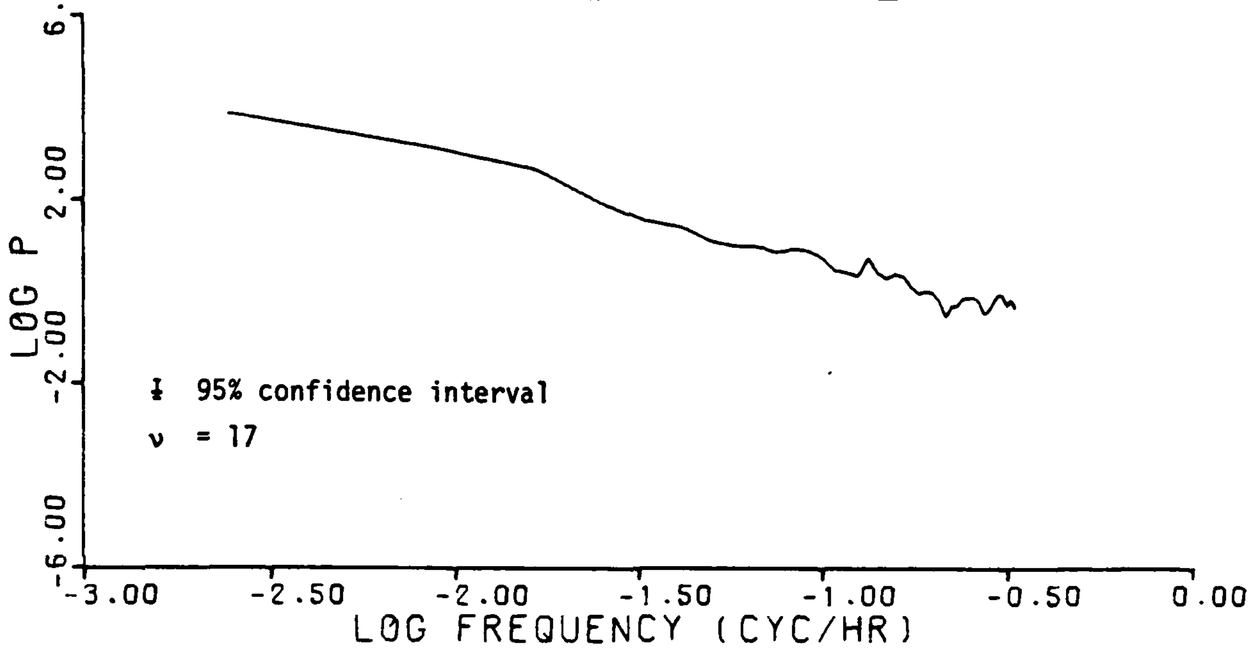


OFFSHORE COMPONENT

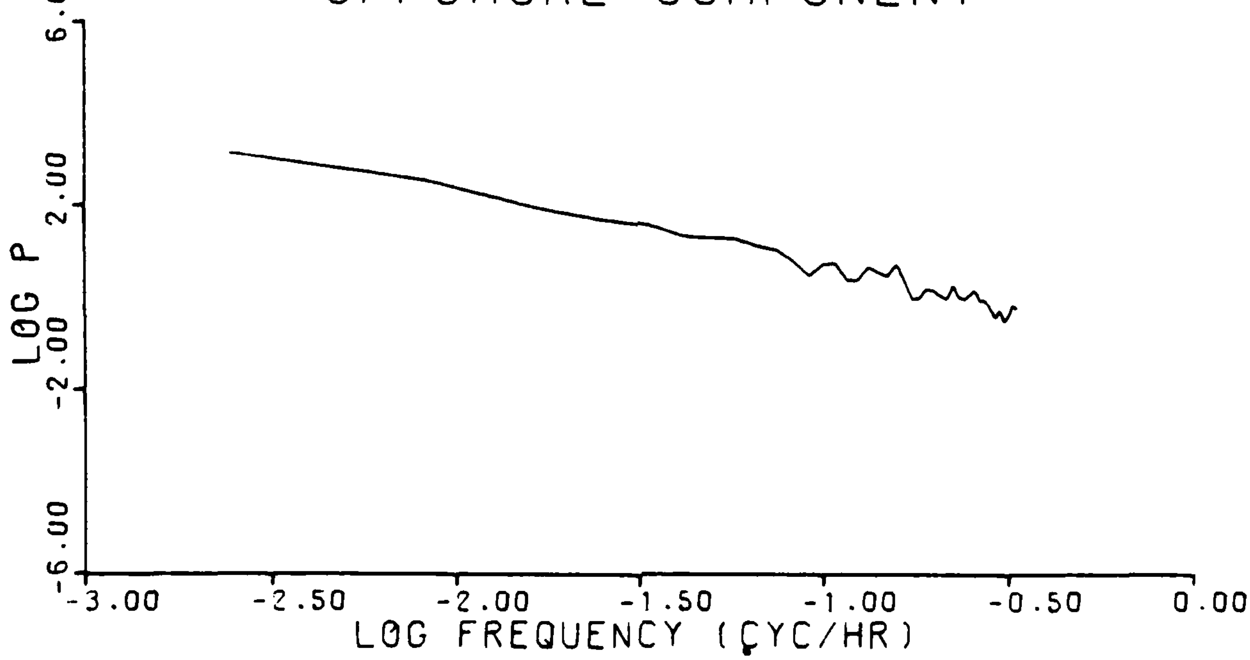


POWER SPECTRA
CG-2 BOTTOM

LONGSHORE COMPONENT

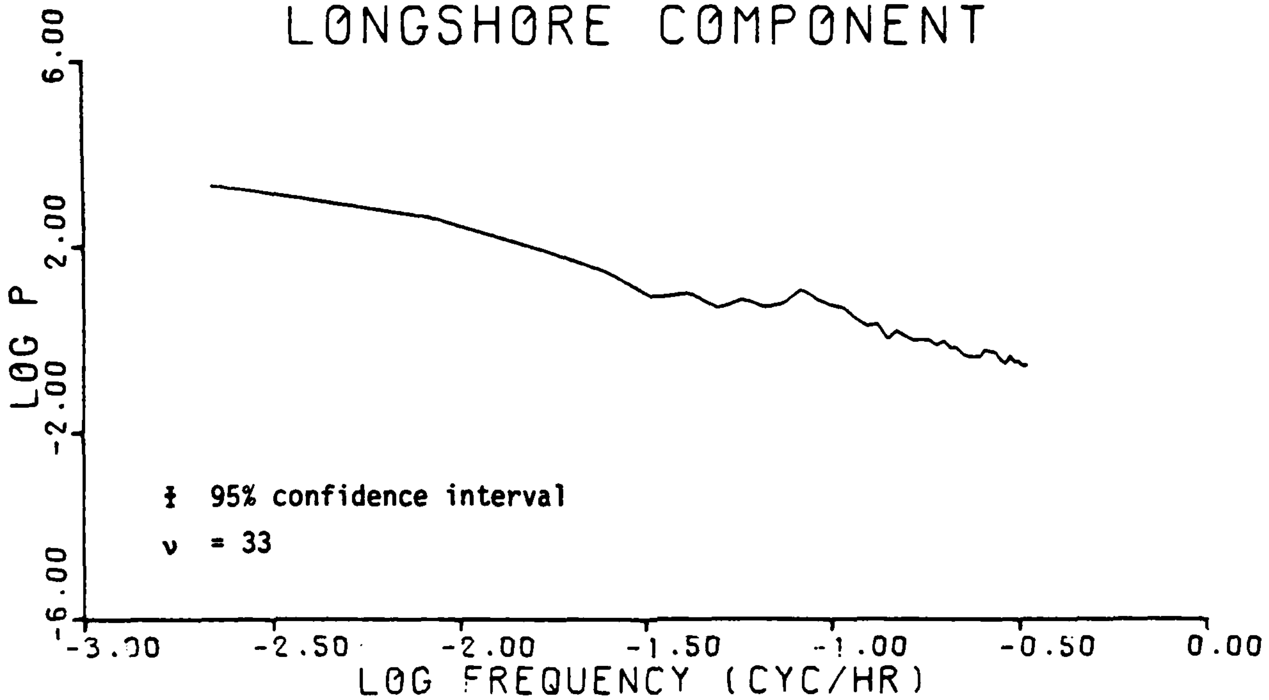


OFFSHORE COMPONENT

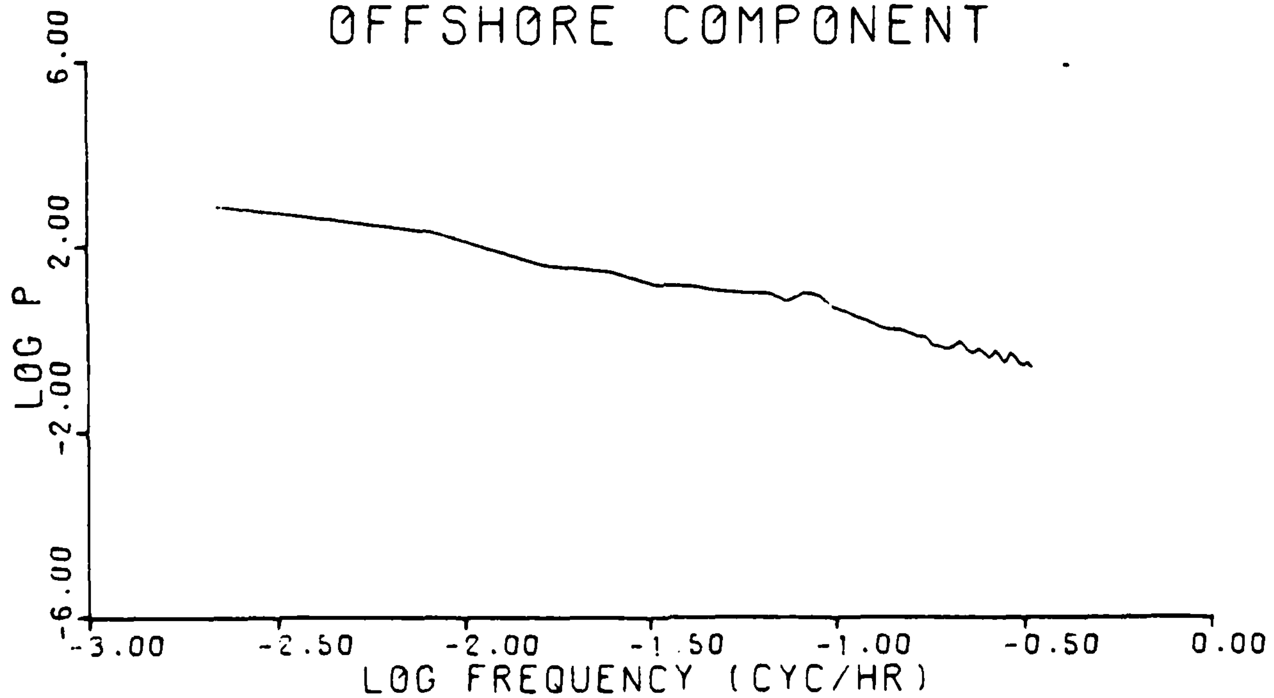


POWER SPECTRA
CG-3 BOTTOM

LONGSHORE COMPONENT

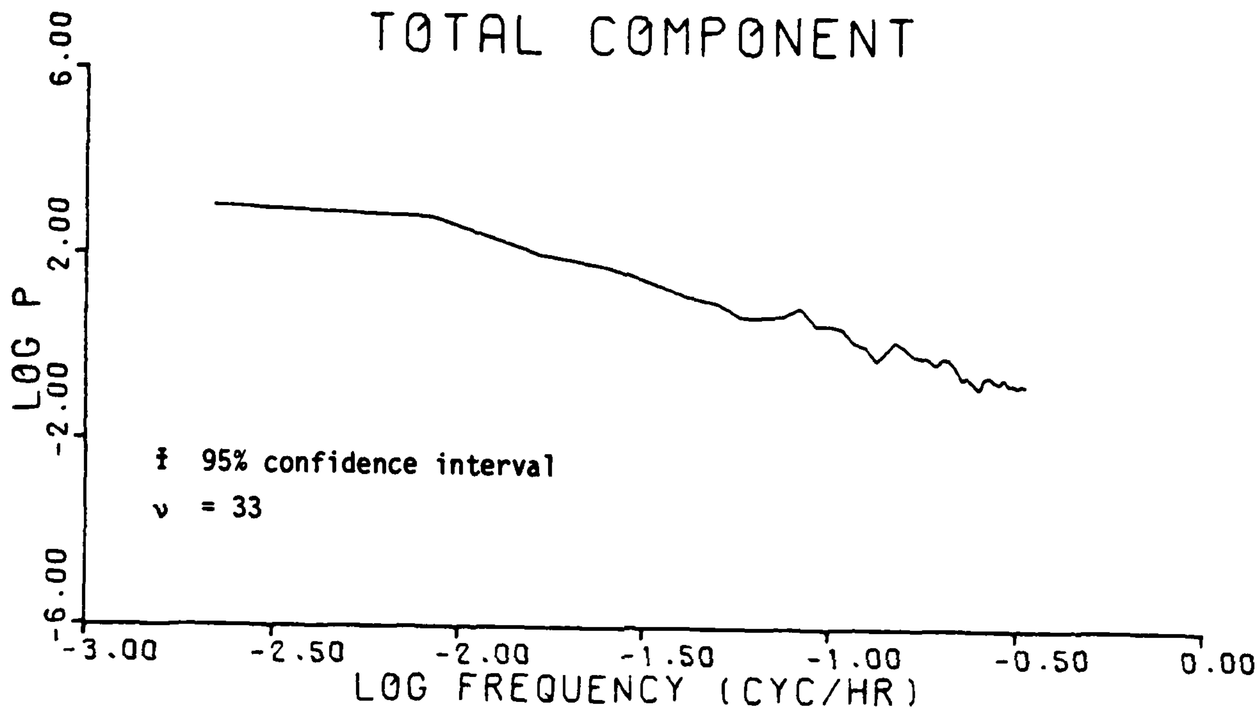


OFFSHORE COMPONENT

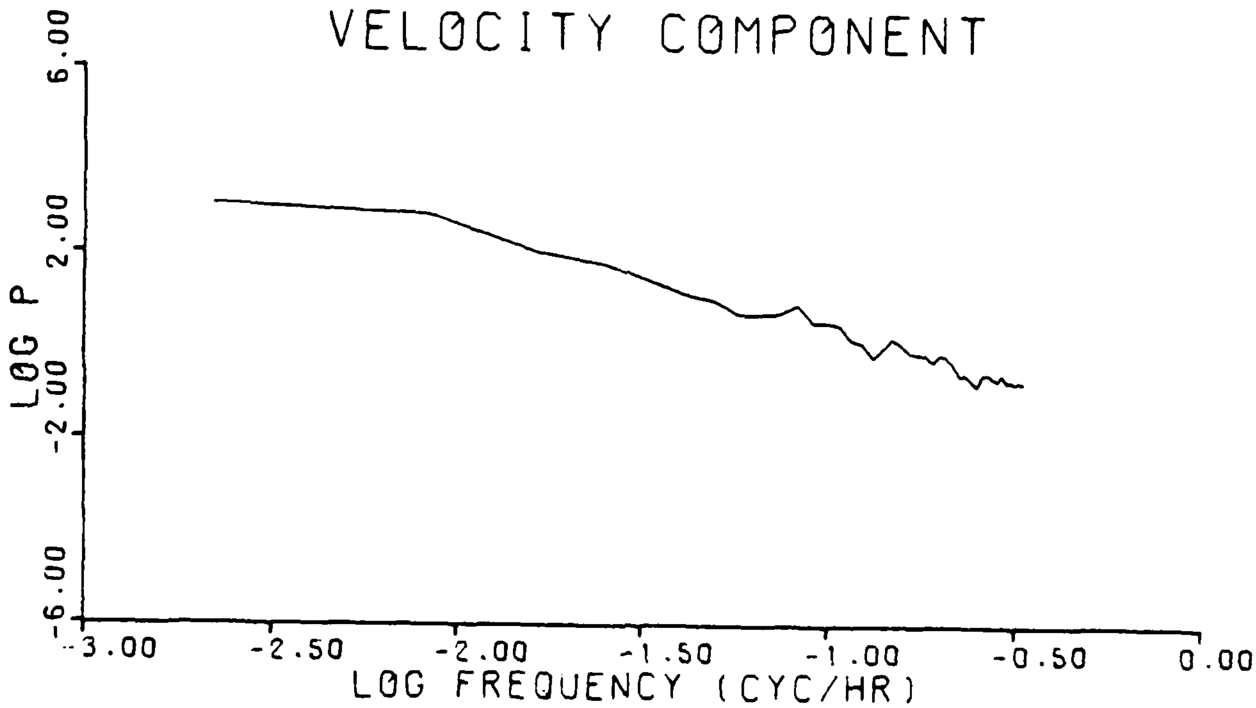


POWER SPECTRA
CG-3 TOP

TOTAL COMPONENT



VELOCITY COMPONENT

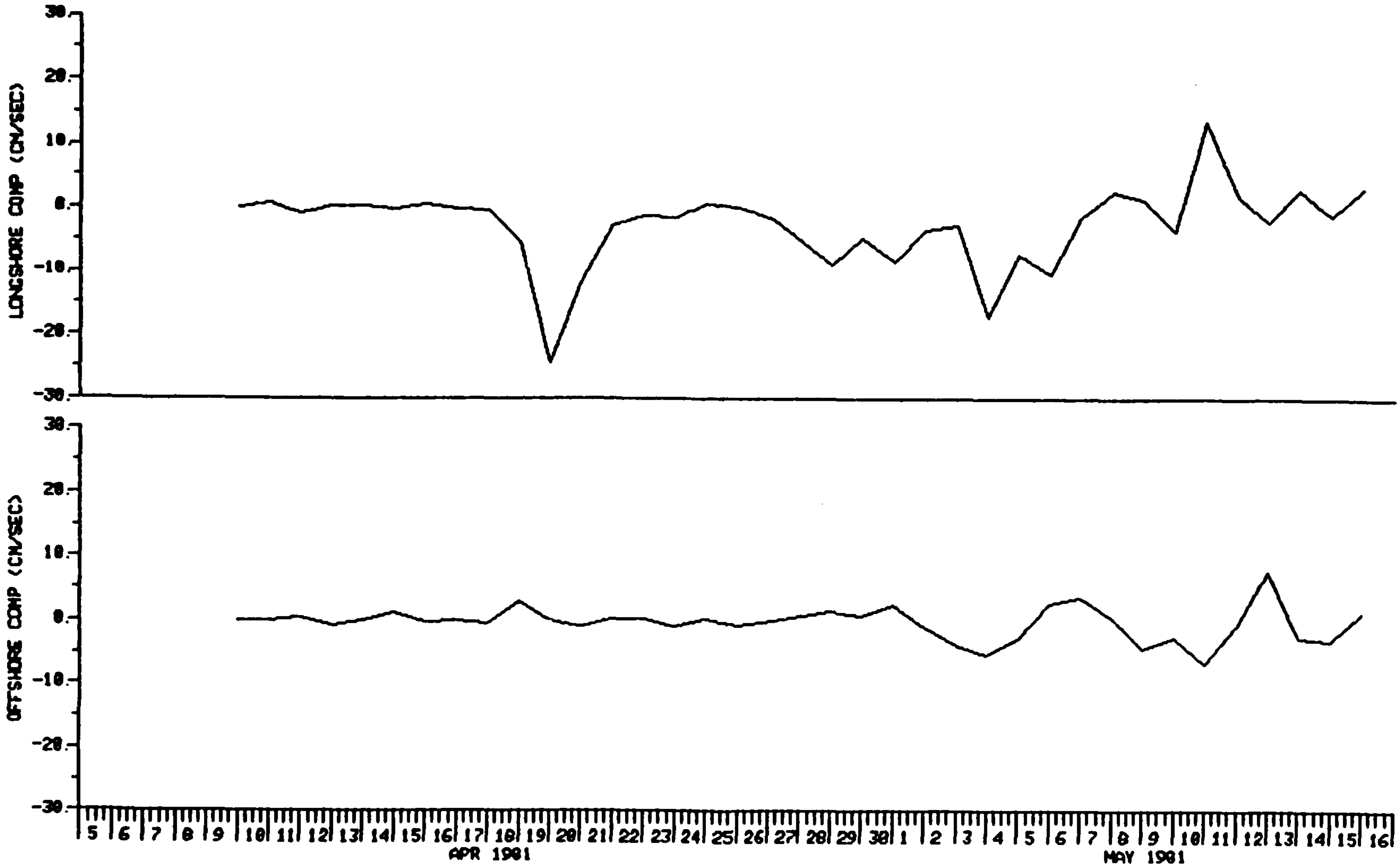


DATA APPENDIX 10

Time Series Plots Longshore and Offshore Components of Velocity
of Drifting Buoys 2577, 2578 and 2579

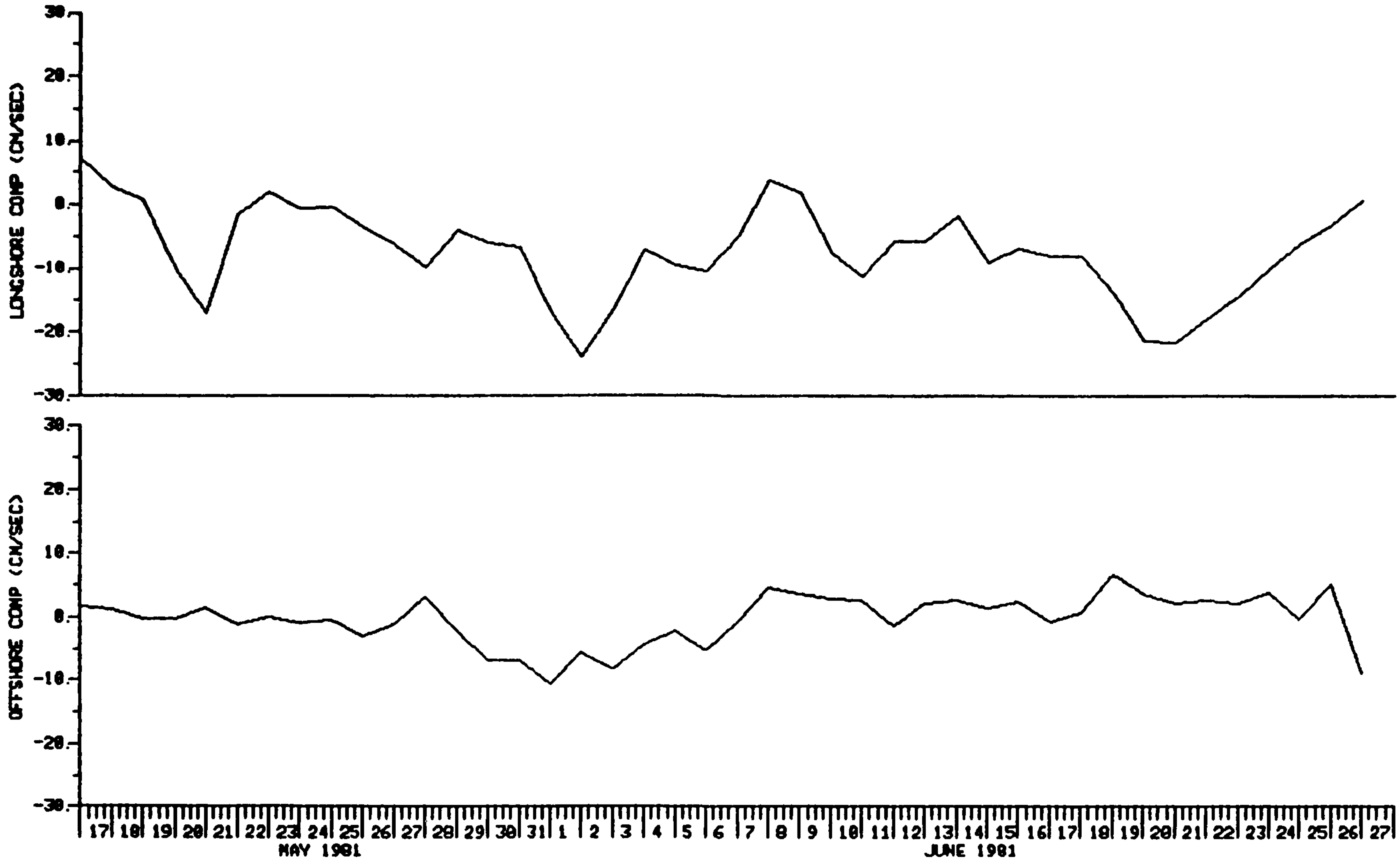
USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO. 2577



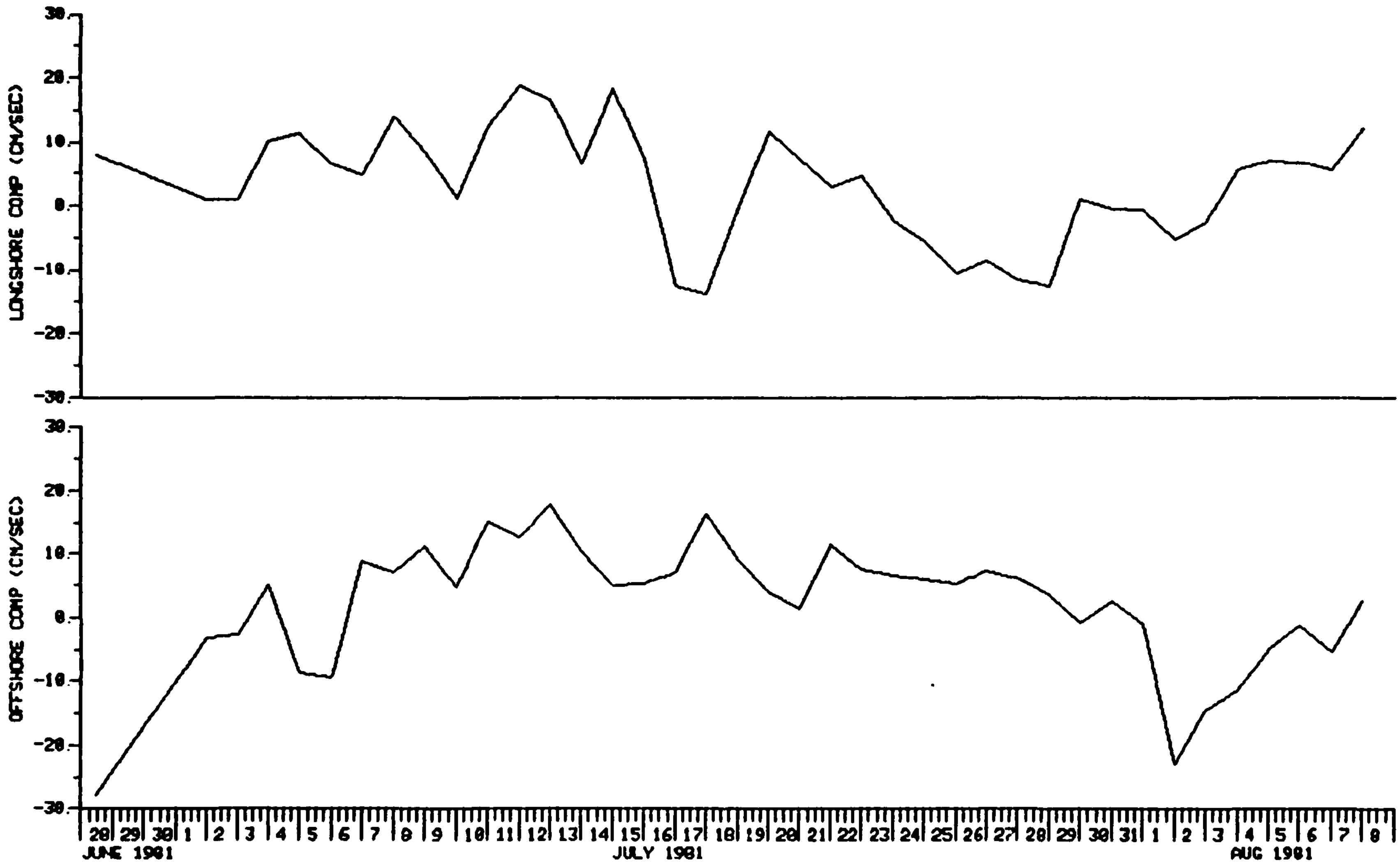
USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO. 2577



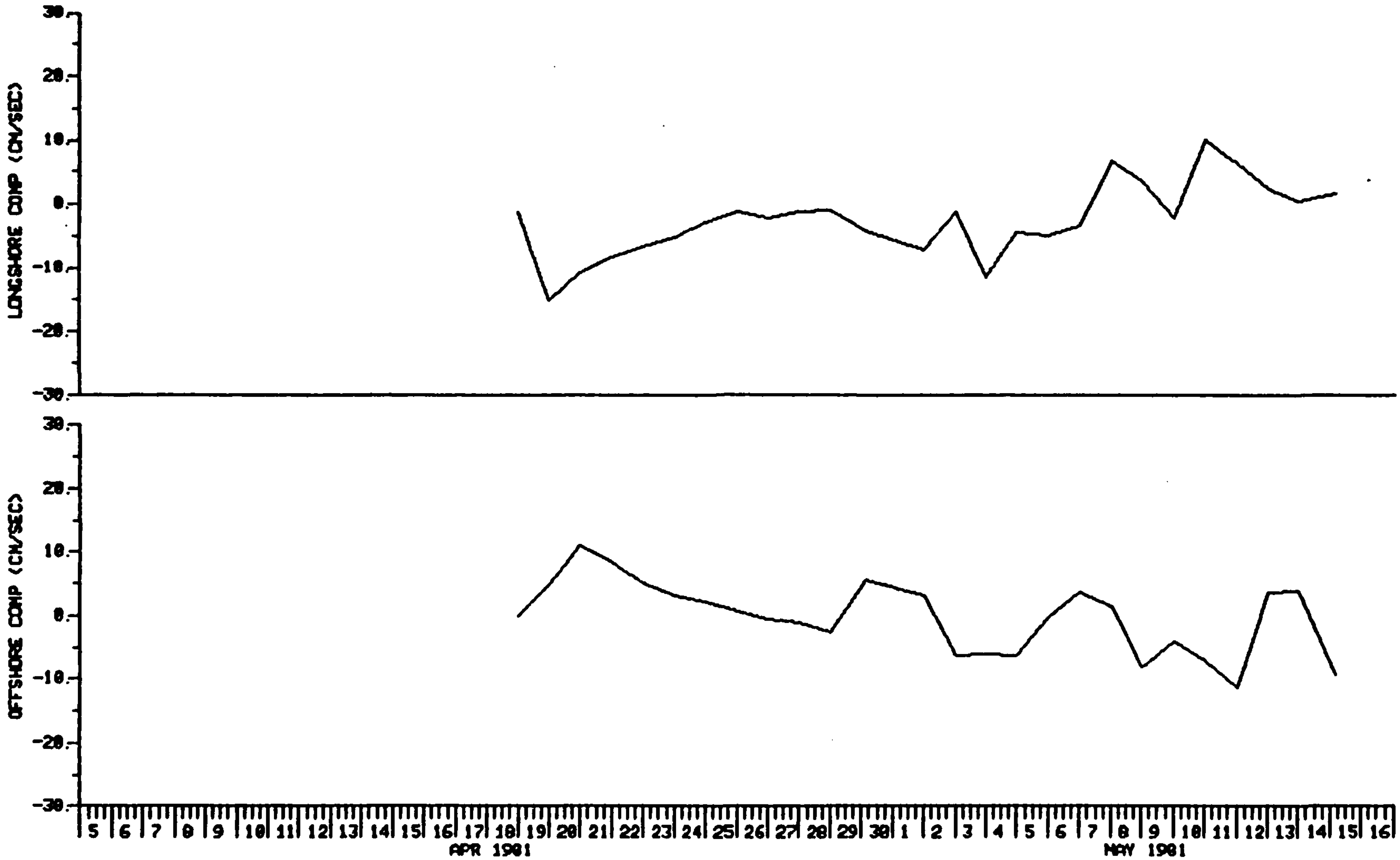
USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO.2577



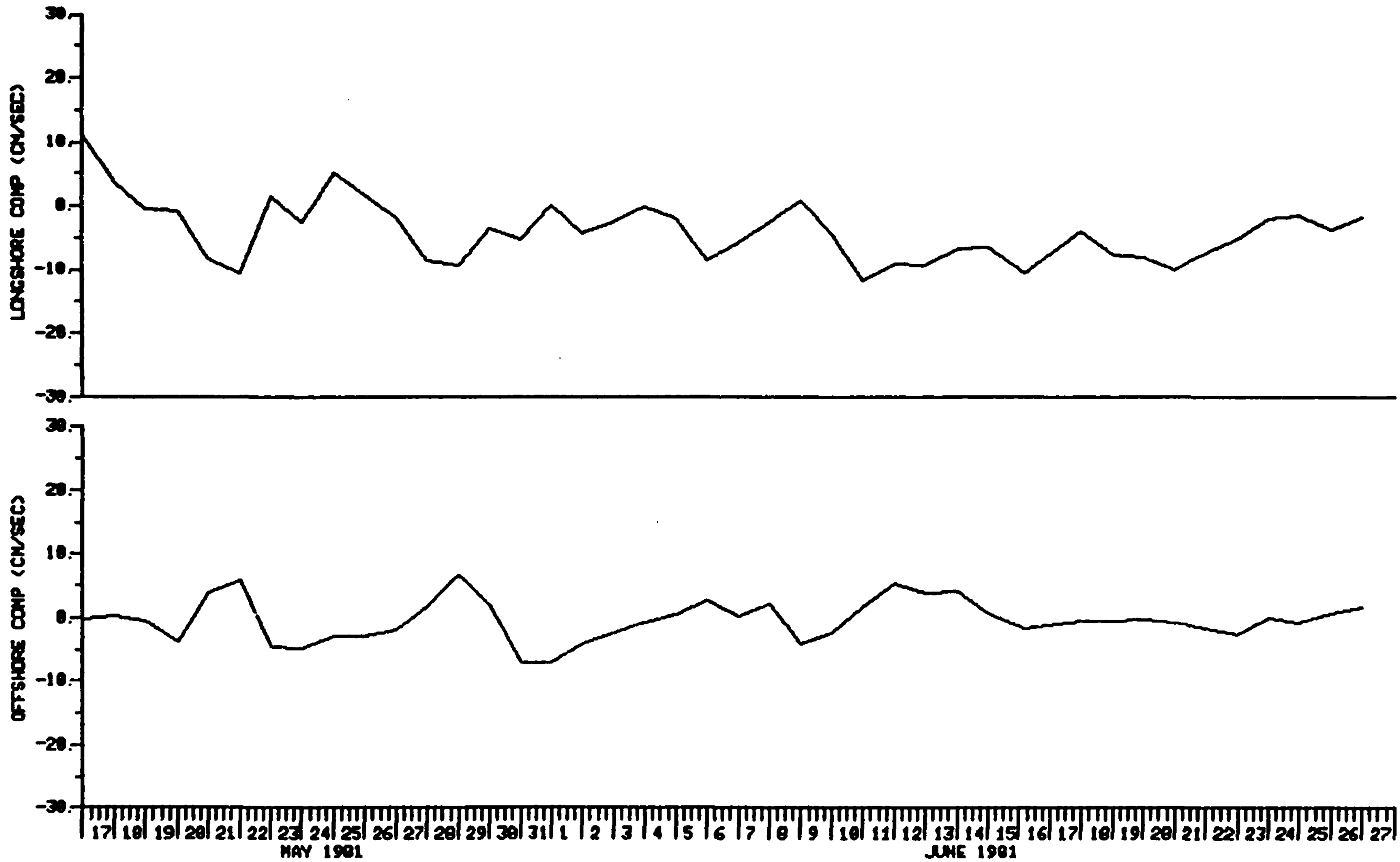
USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO. 2578



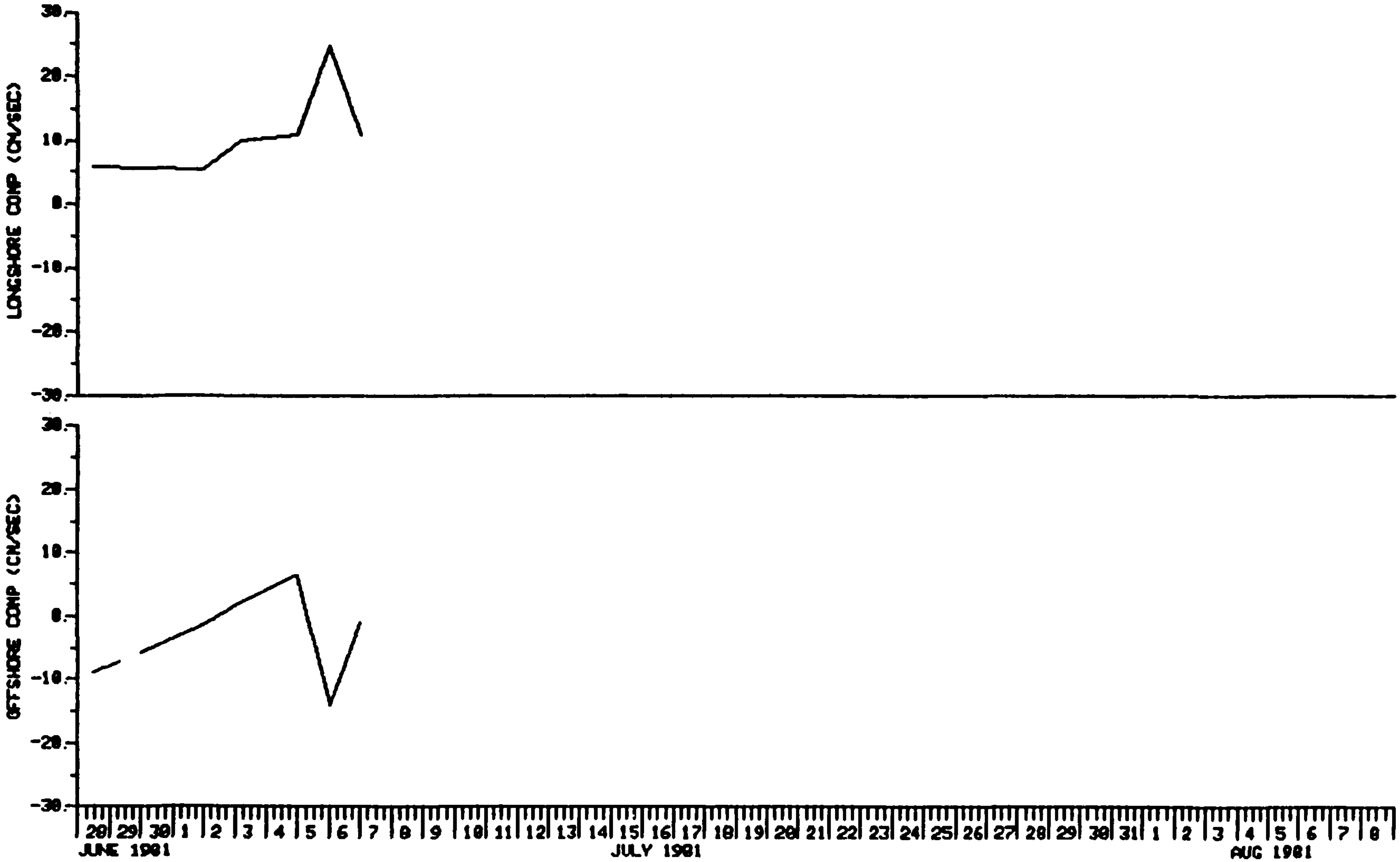
USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO. 2578



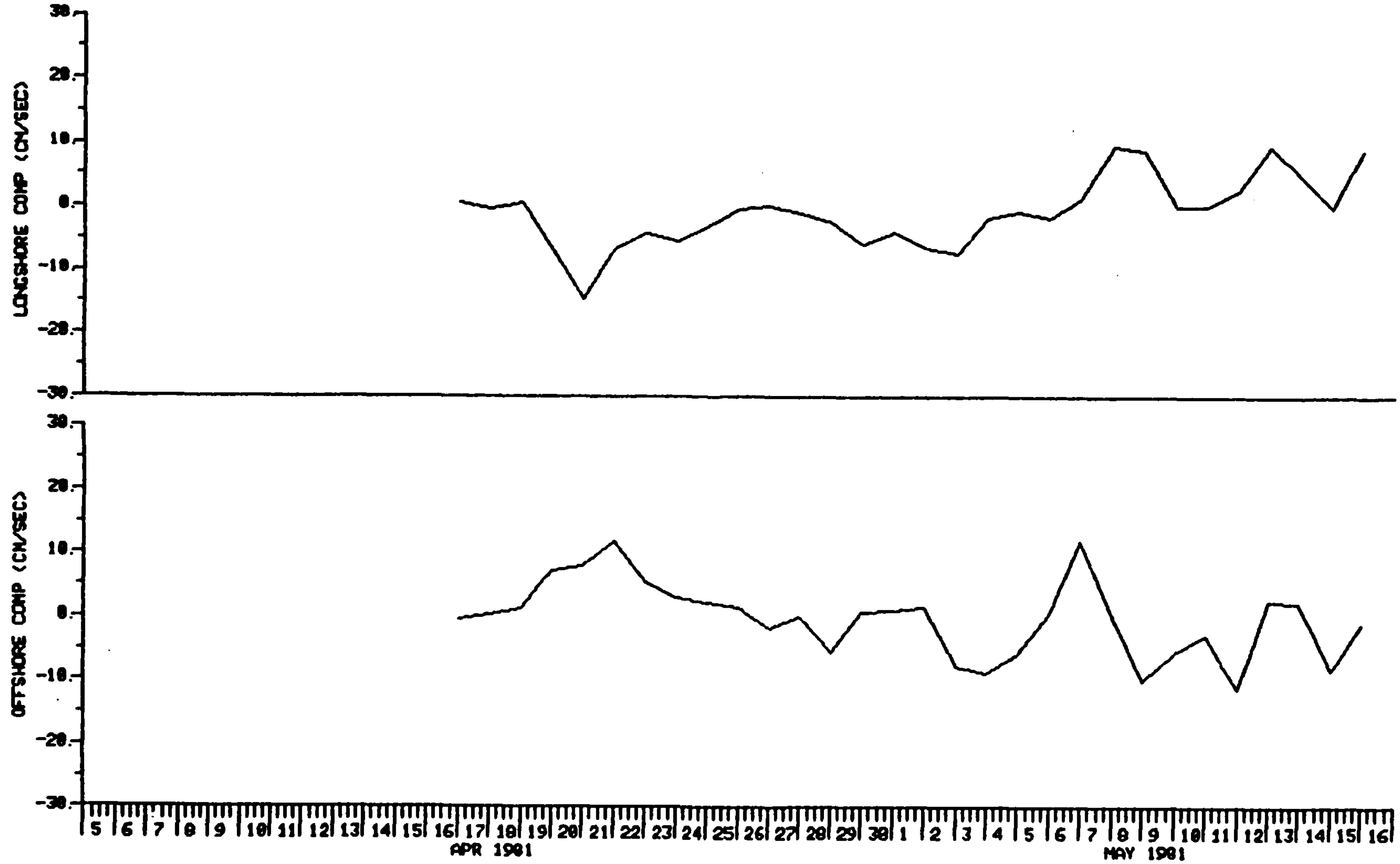
USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO.2578



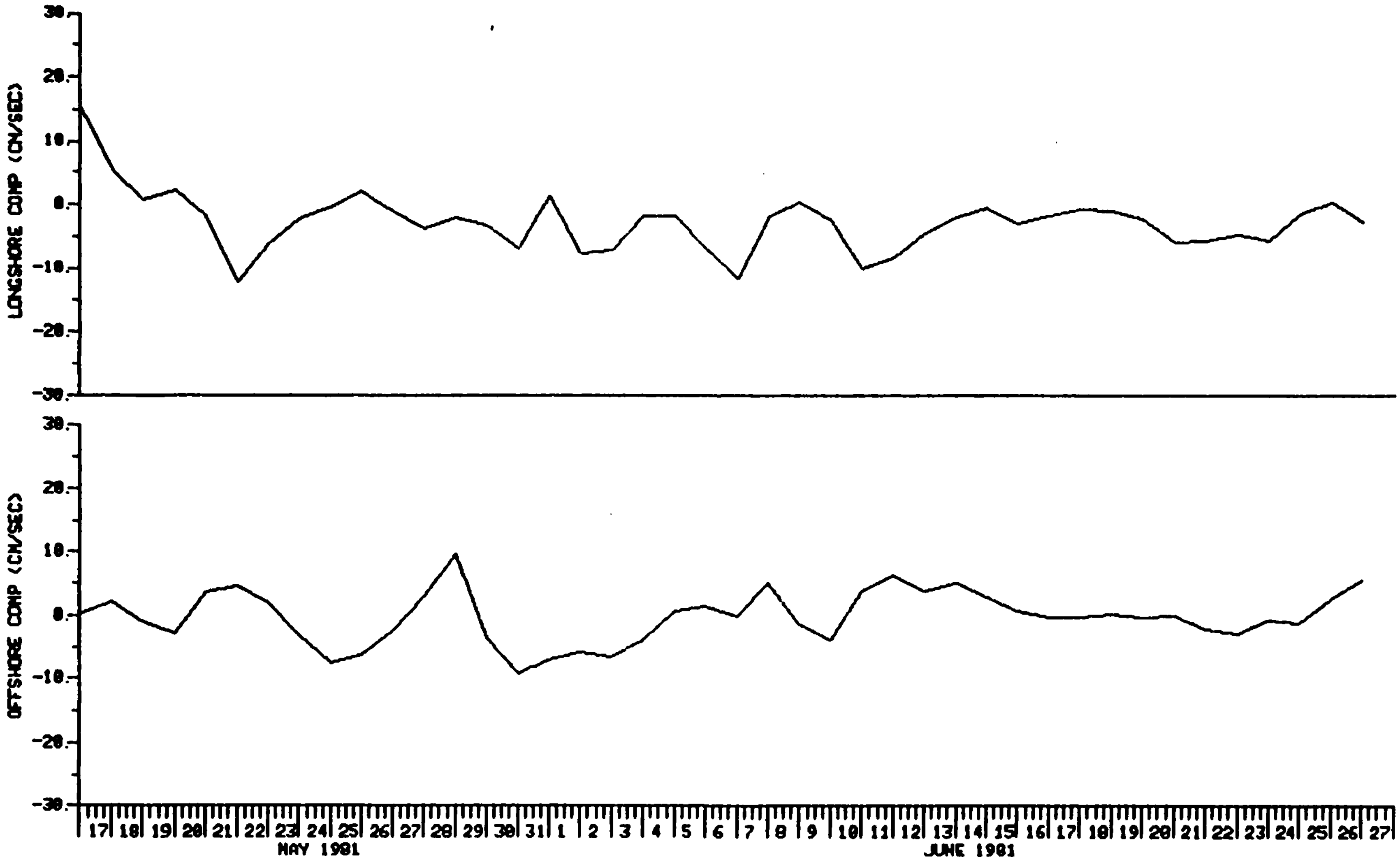
USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO. 2579



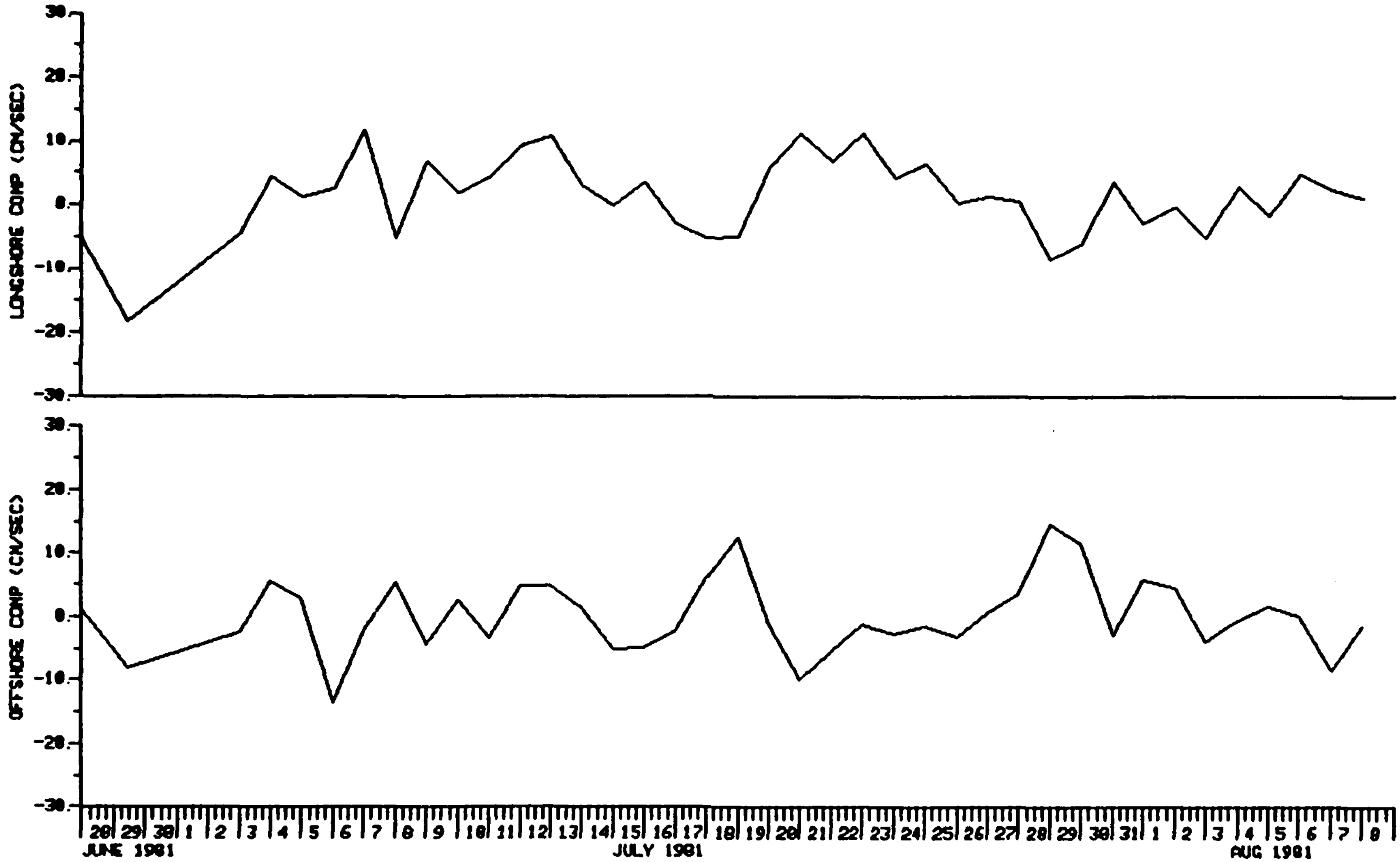
USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO. 2579



USCG BEAUFORT SEA STUDY

DRIFTING BUOY NO. 2579

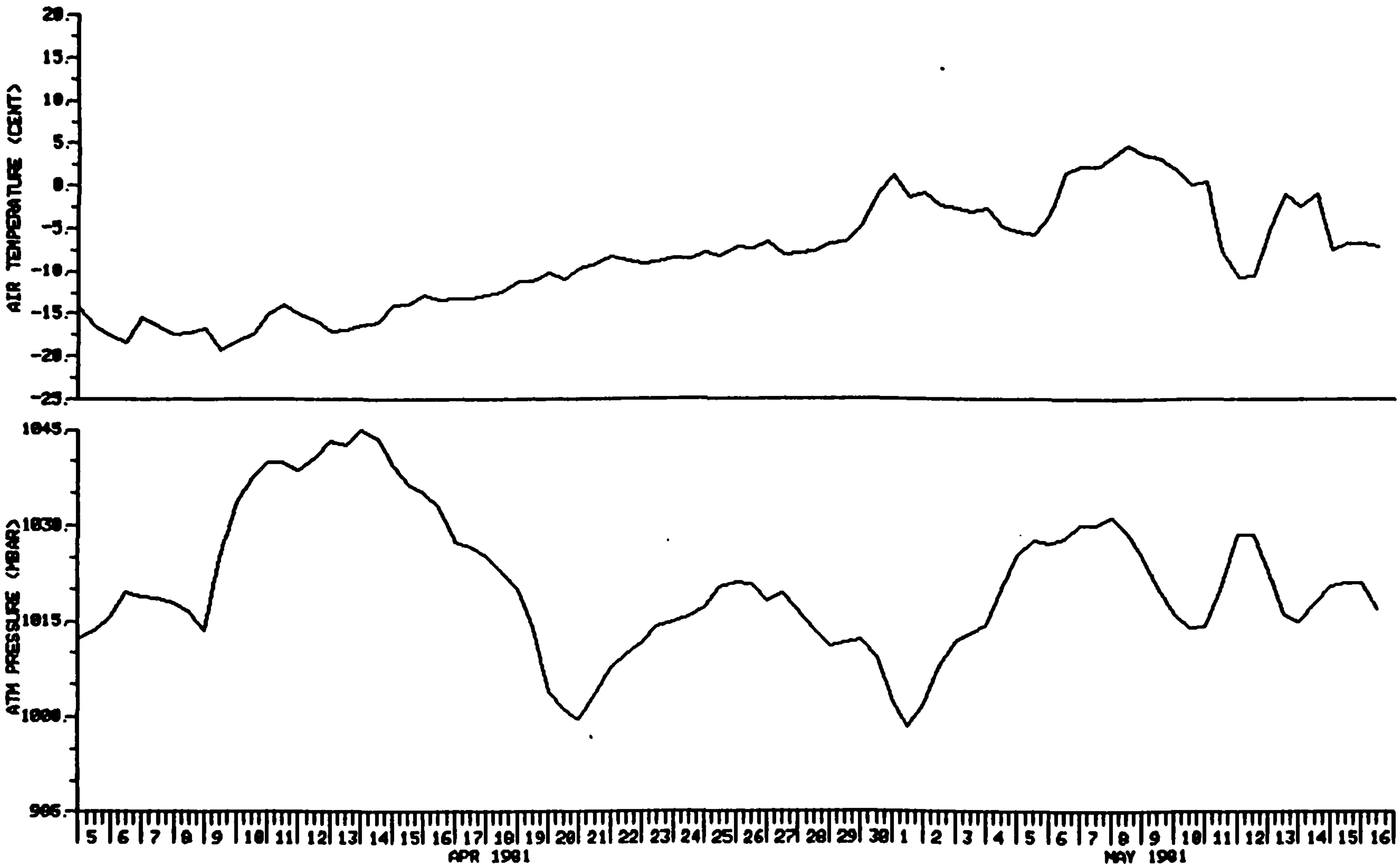


DATA APPENDIX 11

Time Series Plots of Surface Atmospheric Pressure and Air Temperature
at Three Points in the Southern Beaufort Sea:
71° N 146° W, 71.5° N 153° W and 70.5° N 139° W

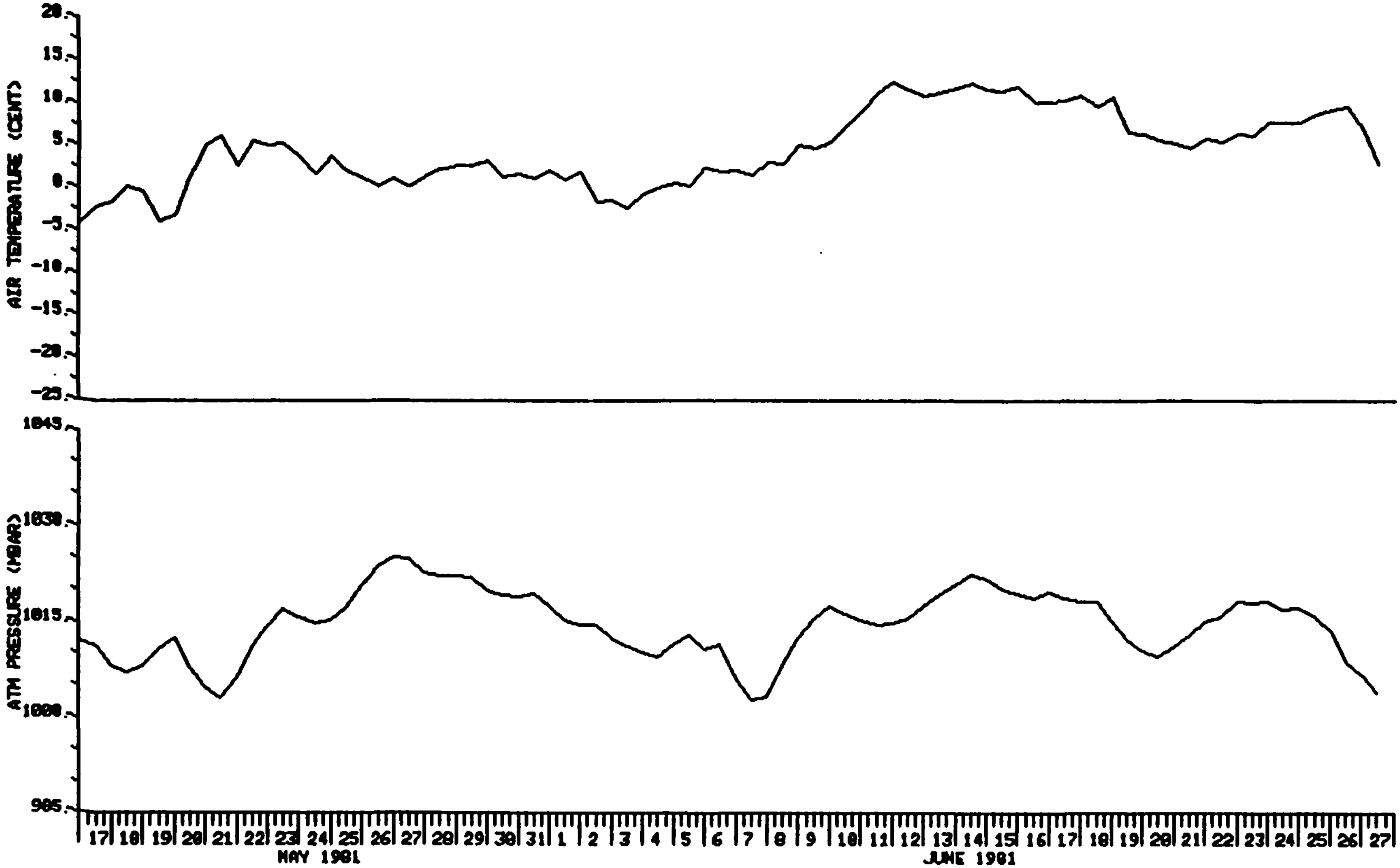
USCG BEAUFORT SEA STUDY

LONGSHORE 110 DEGREES TRUE AT 71.0 N 146.0 W



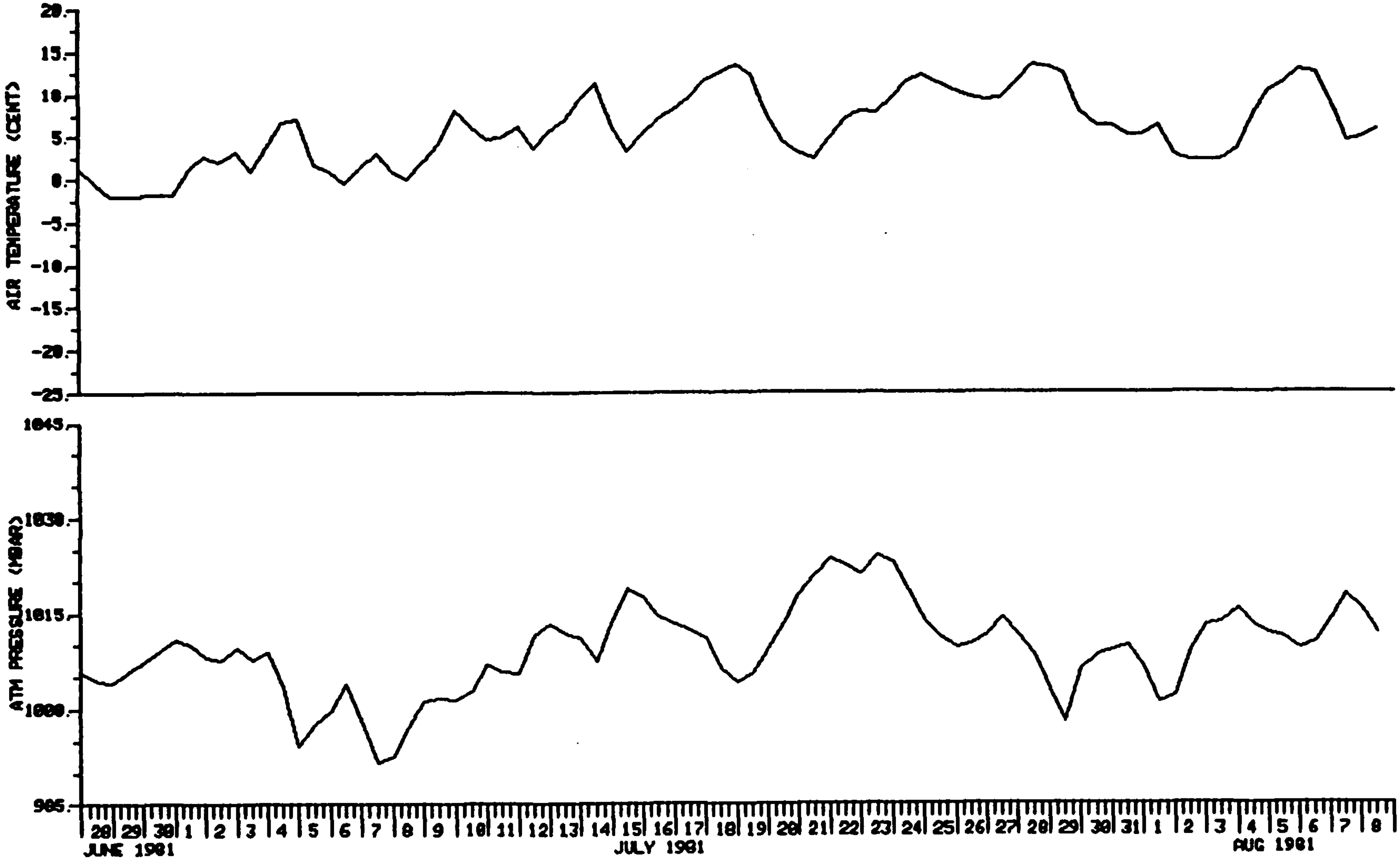
USCG BEAUFORT SEA STUDY

LONGSHORE 110 DEGREES TRUE AT 71.0 N 146.0 W



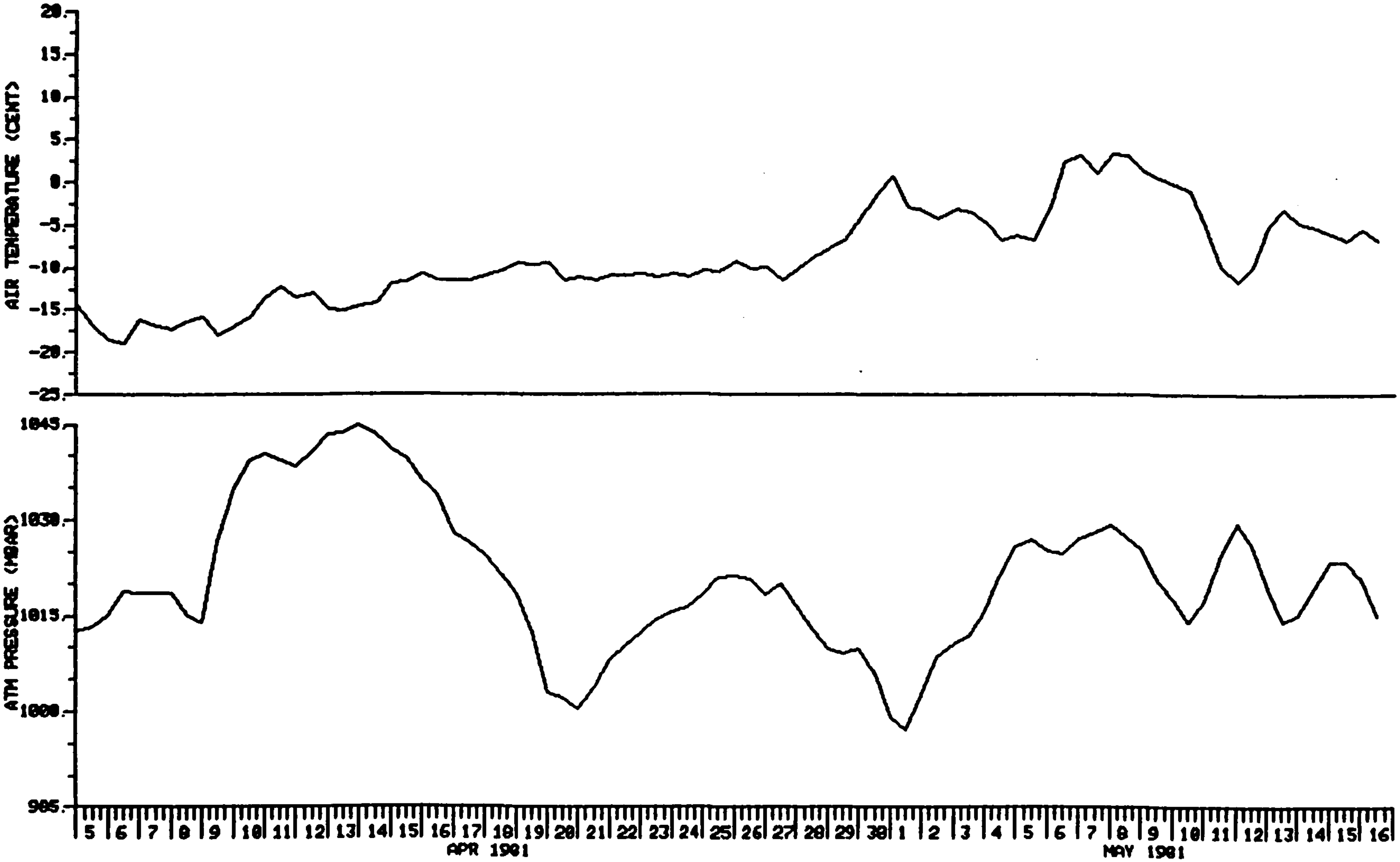
USCG BEAUFORT SEA STUDY

LONGSHORE 110 DEGREES TRUE AT 71.0 N 146.0 W



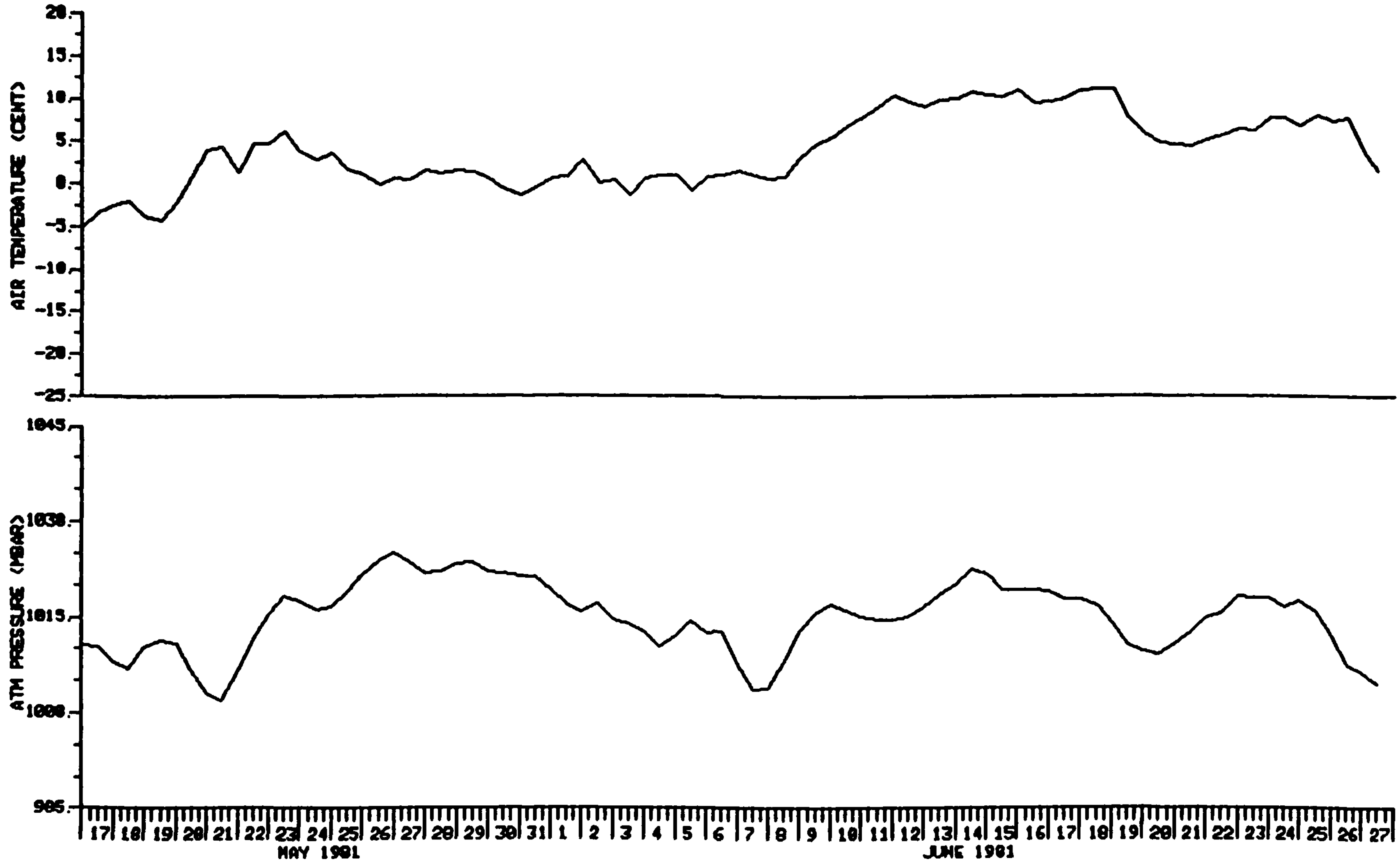
USCG BEAUFORT SEA STUDY

LONGSHORE 120 DEGREES TRUE AT 71.5 N 153.0 W



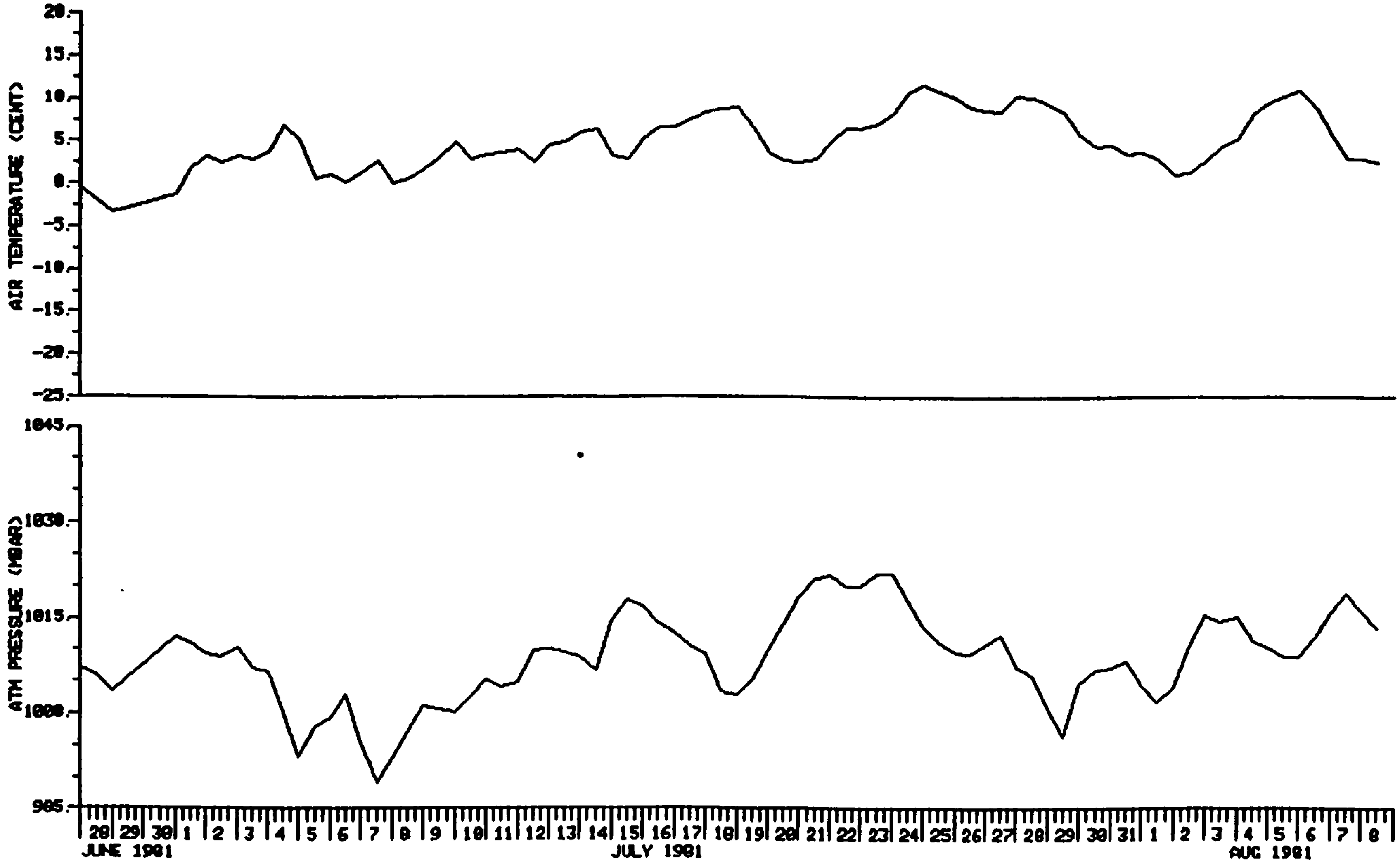
USCG BEAUFORT SEA STUDY

LONGSHORE 120 DEGREES TRUE AT 71.5 N 153.0 W



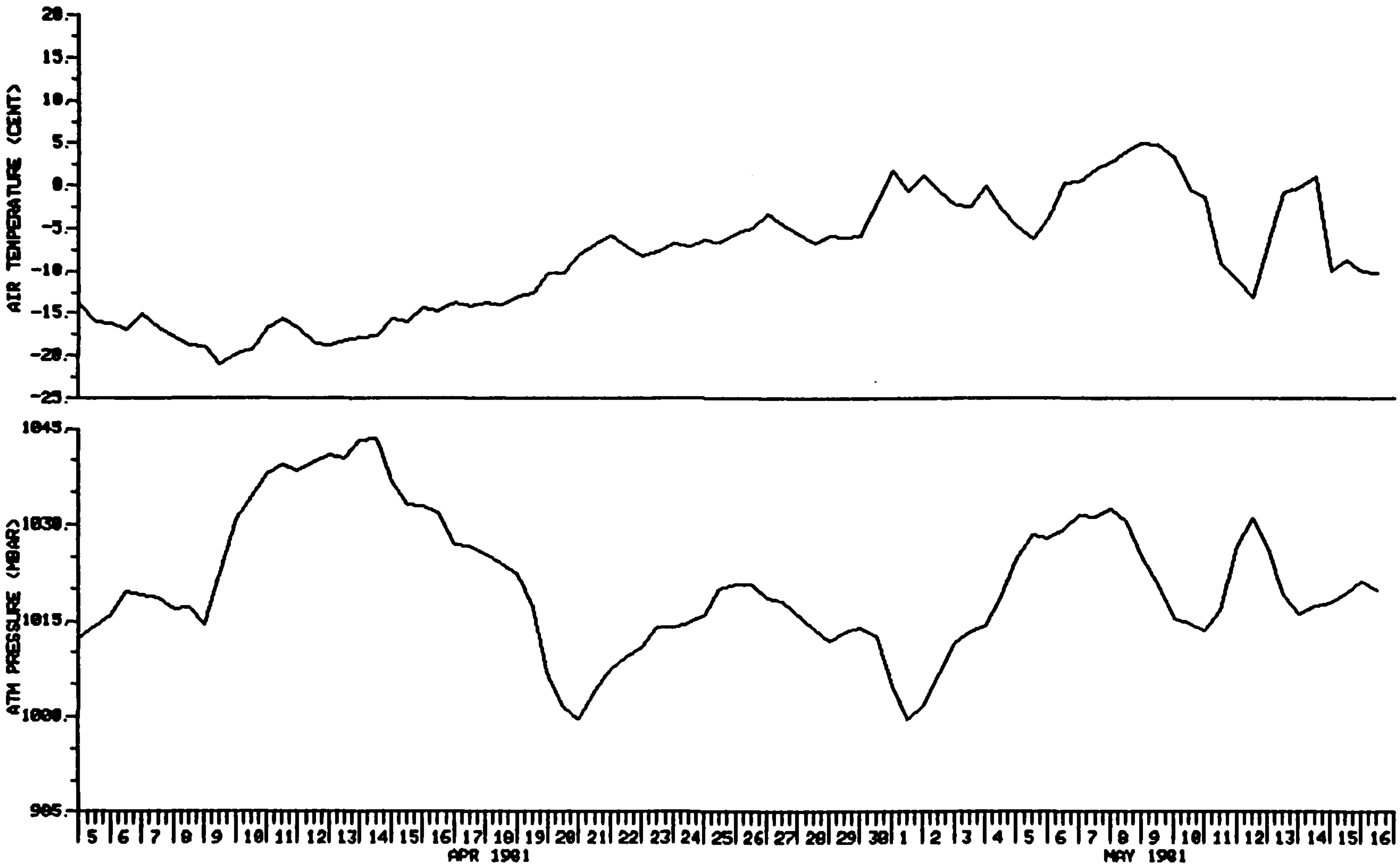
USCG BEAUFORT SEA STUDY

LONGSHORE 120 DEGREES TRUE AT 71.5 N 153.0 W



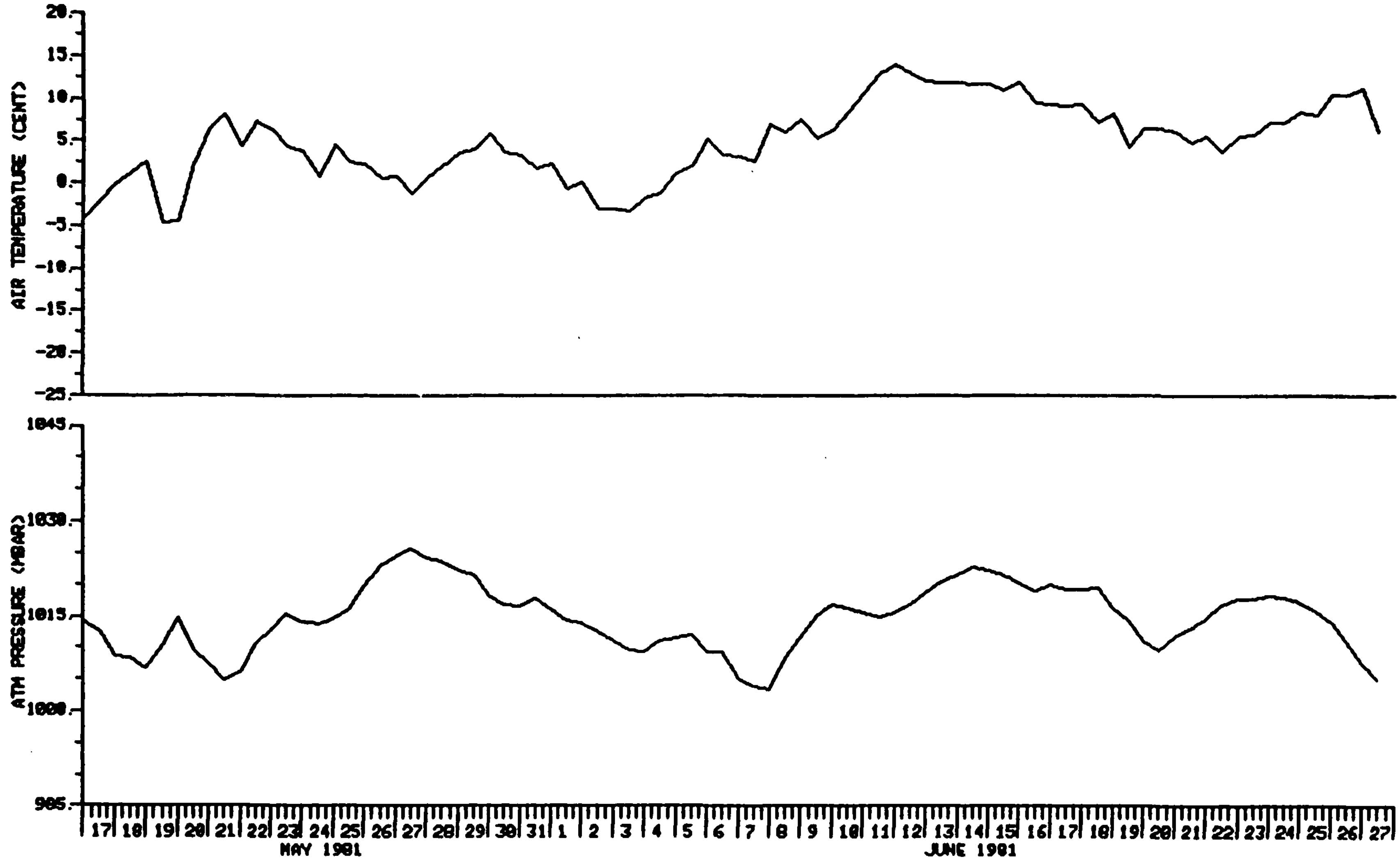
USCG BEAUFORT SEA STUDY

LONGSHORE 90 DEGREES TRUE AT 70.5 N 139.0 W



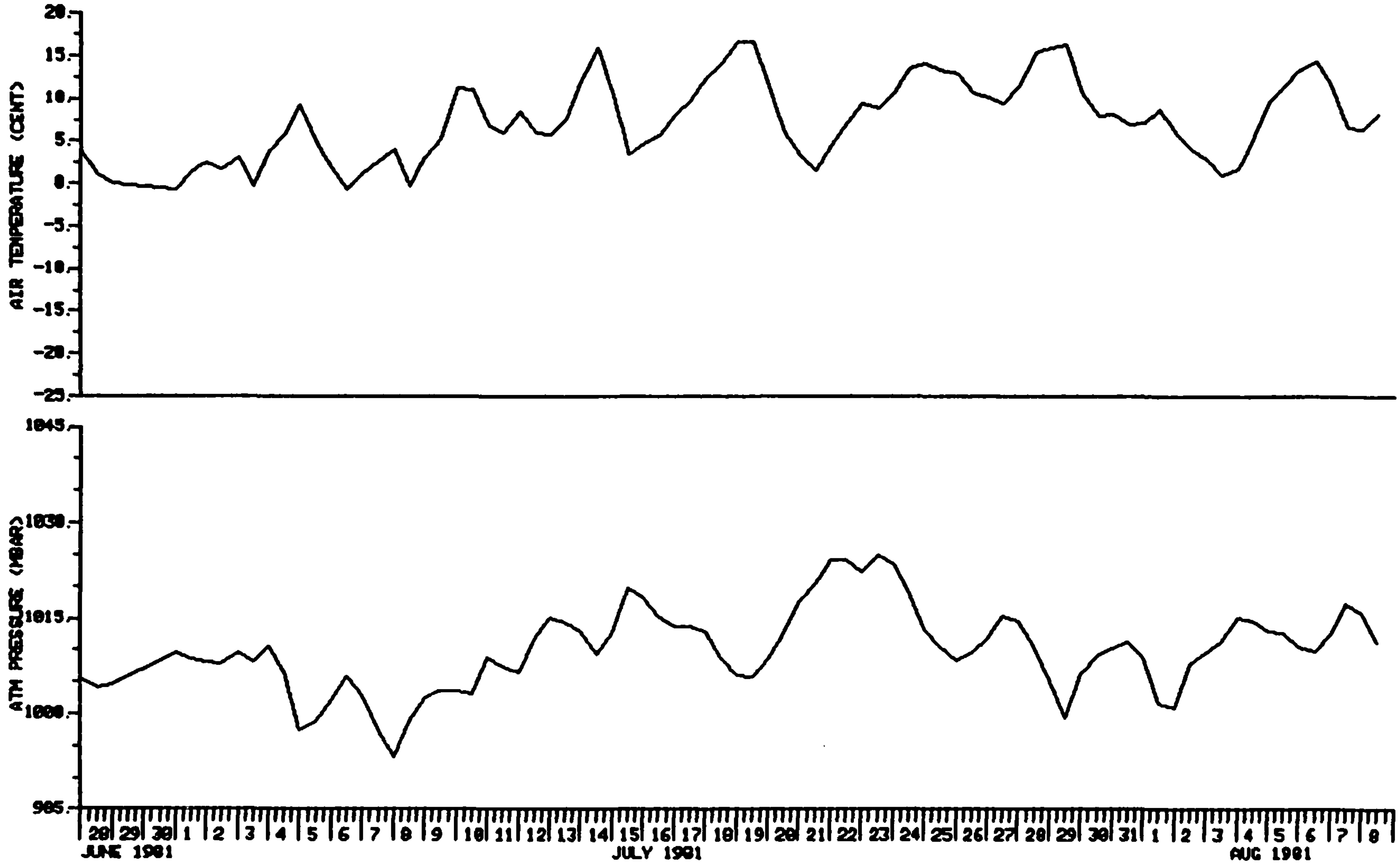
USCG BEAUFORT SEA STUDY

LONGSHORE 90 DEGREES TRUE AT 70.5 N 139.0 W



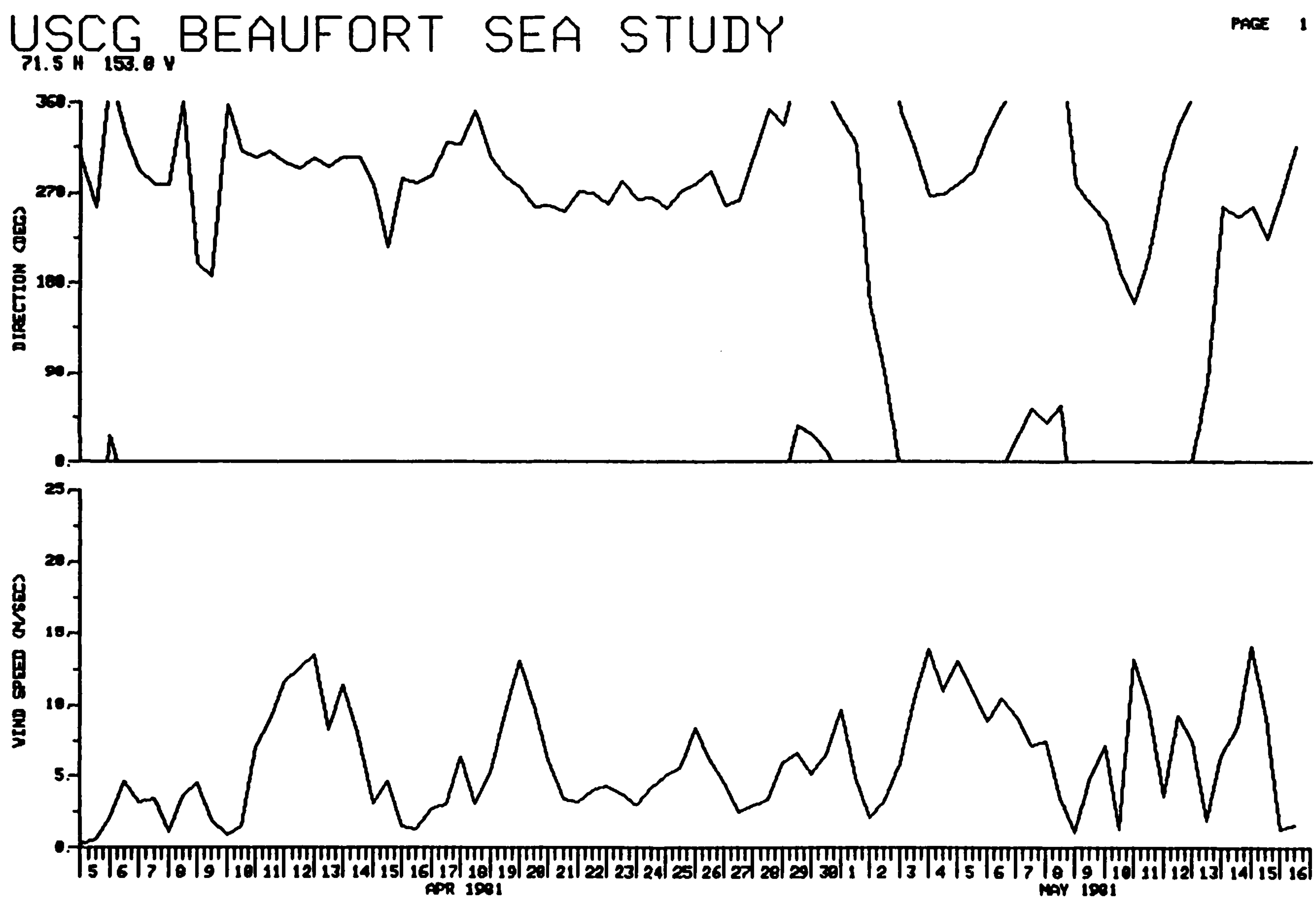
USCG BEAUFORT SEA STUDY

LONGSHORE 90 DEGREES TRUE AT 70.5 N 139.0 W



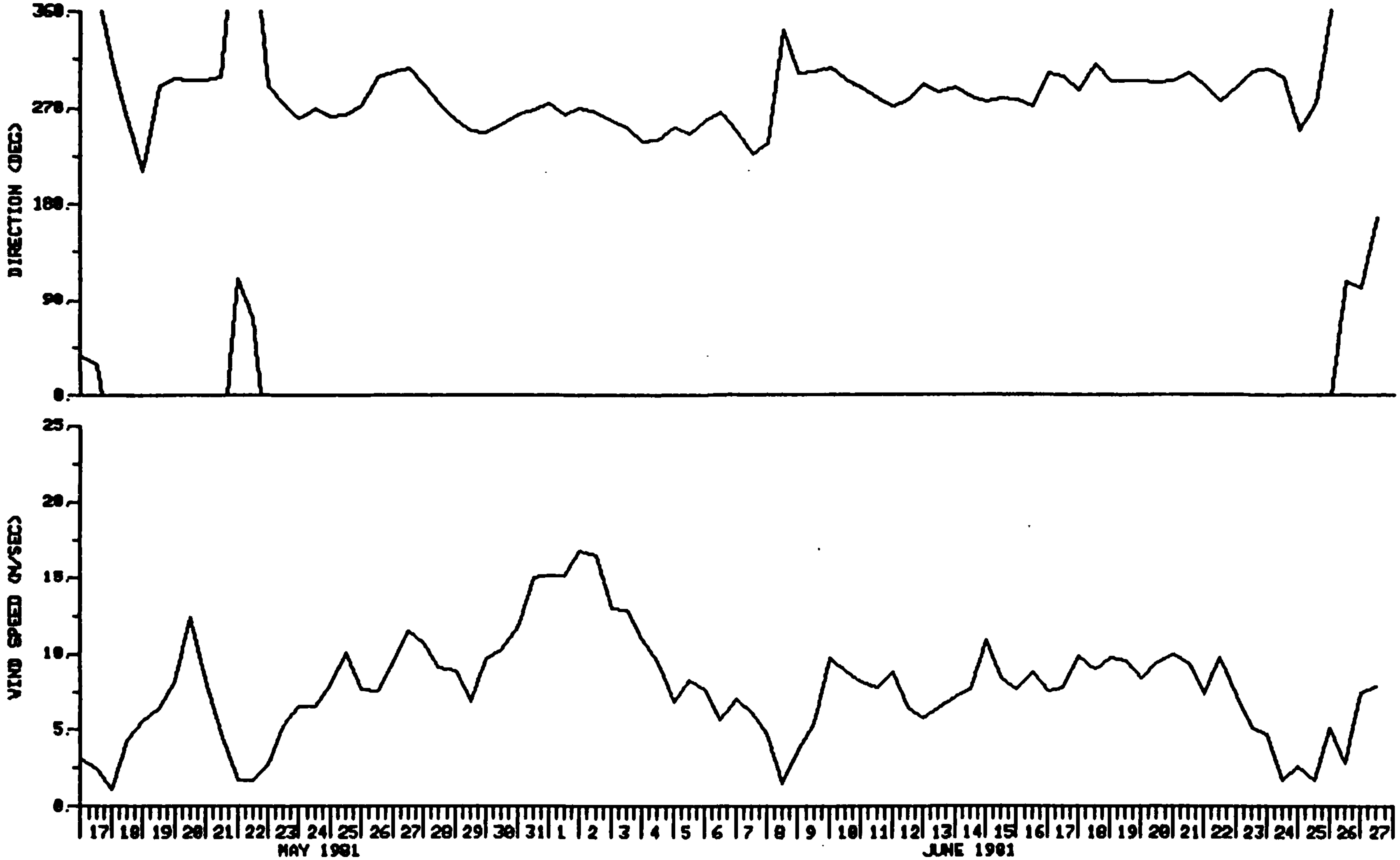
DATA APPENDIX 12

Time Series Plots of Geostrophic Wind Speeds and Direction
at Four Points in the Southern Beaufort and Chukchi Seas


USCG BEAUFORT SEA STUDY
71.5 N 153.0 W
DIRECTION (DEG)
360.
270.
180.
90.
0.
WIND SPEED (M/SEC)
25.
20.
15.
10.
5.
0.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
APR 1981
MAY 1981

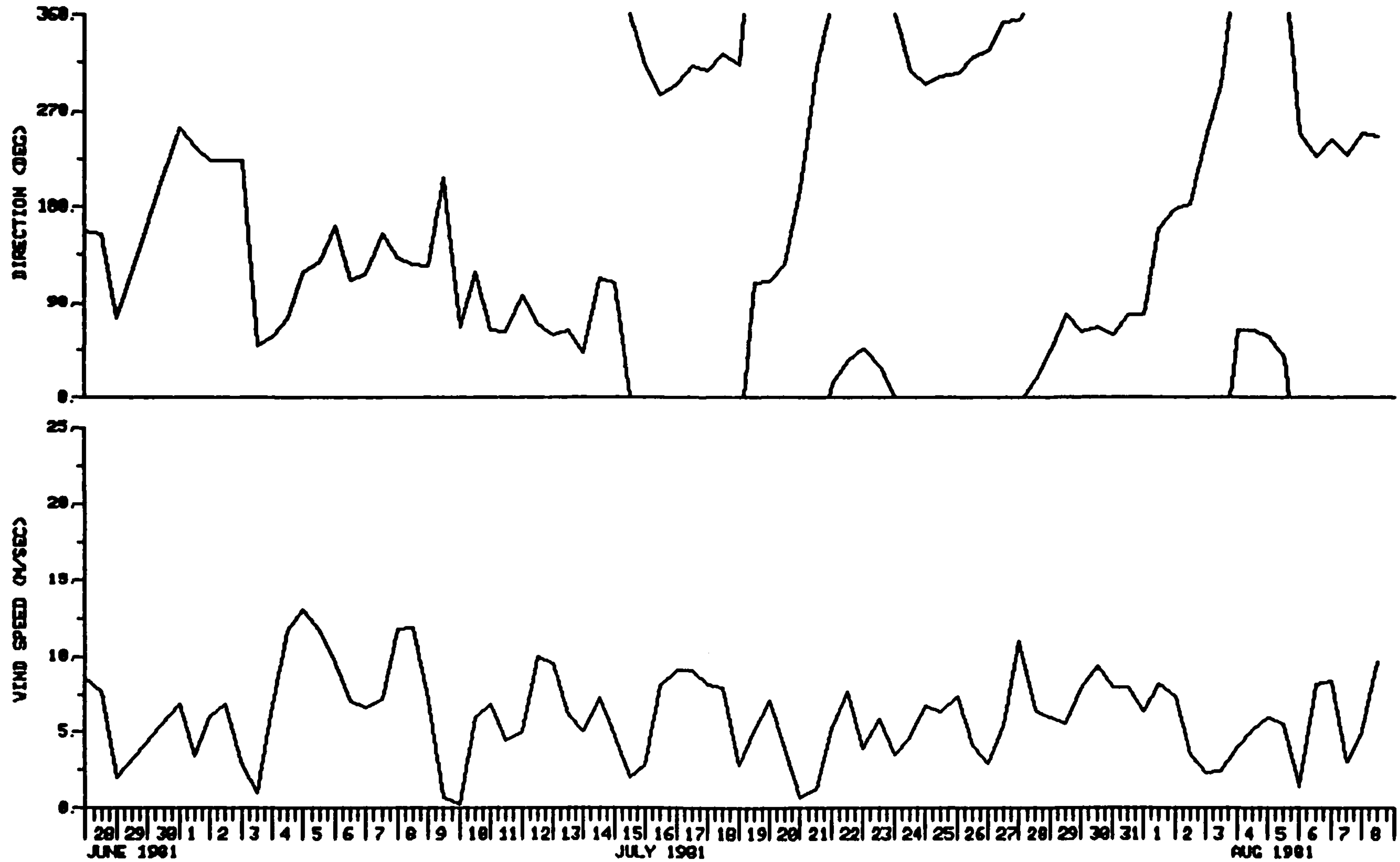
USCG BEAUFORT SEA STUDY

71.5 N 153.0 W



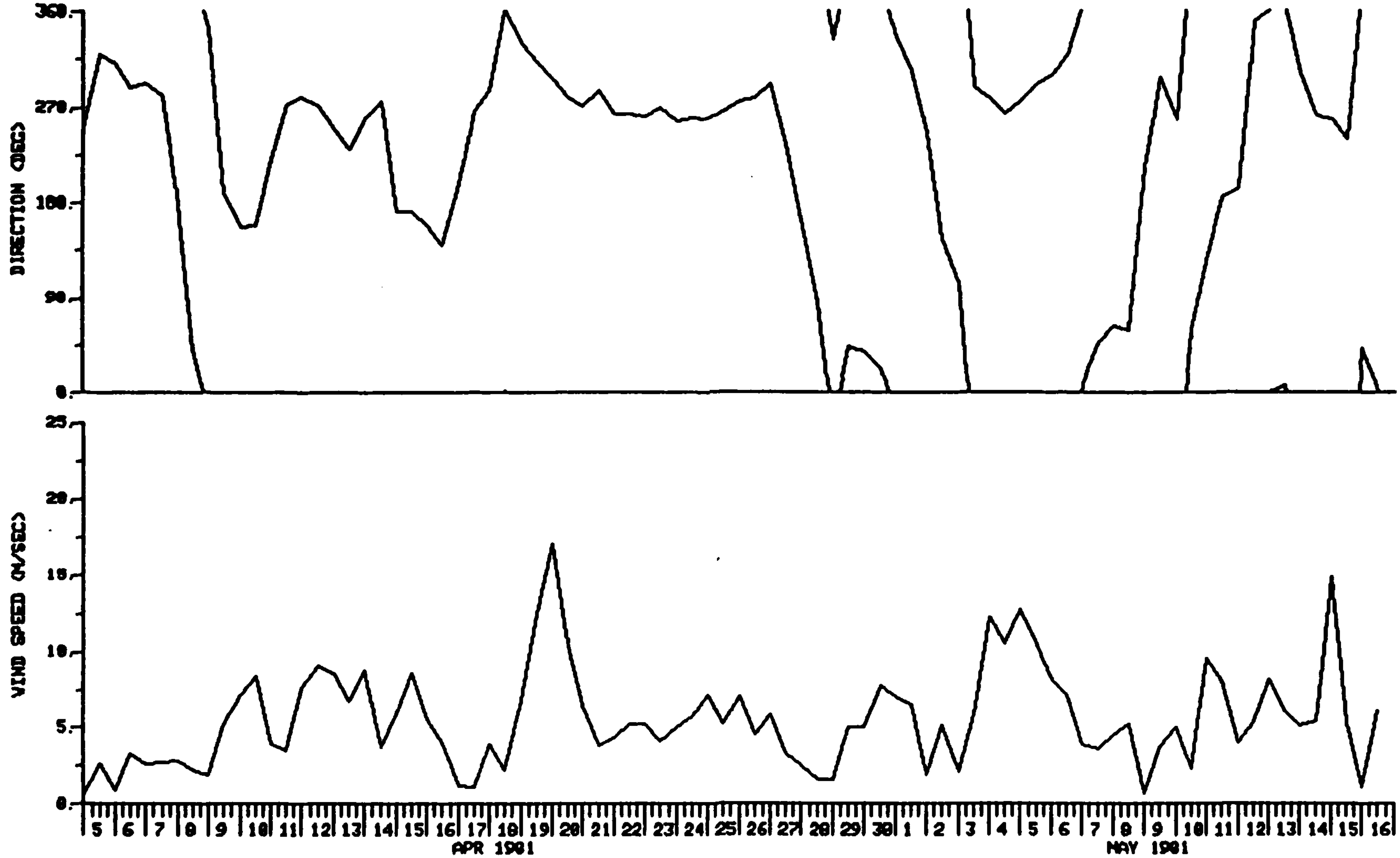
USCG BEAUFORT SEA STUDY

71.5 N 153.0 W



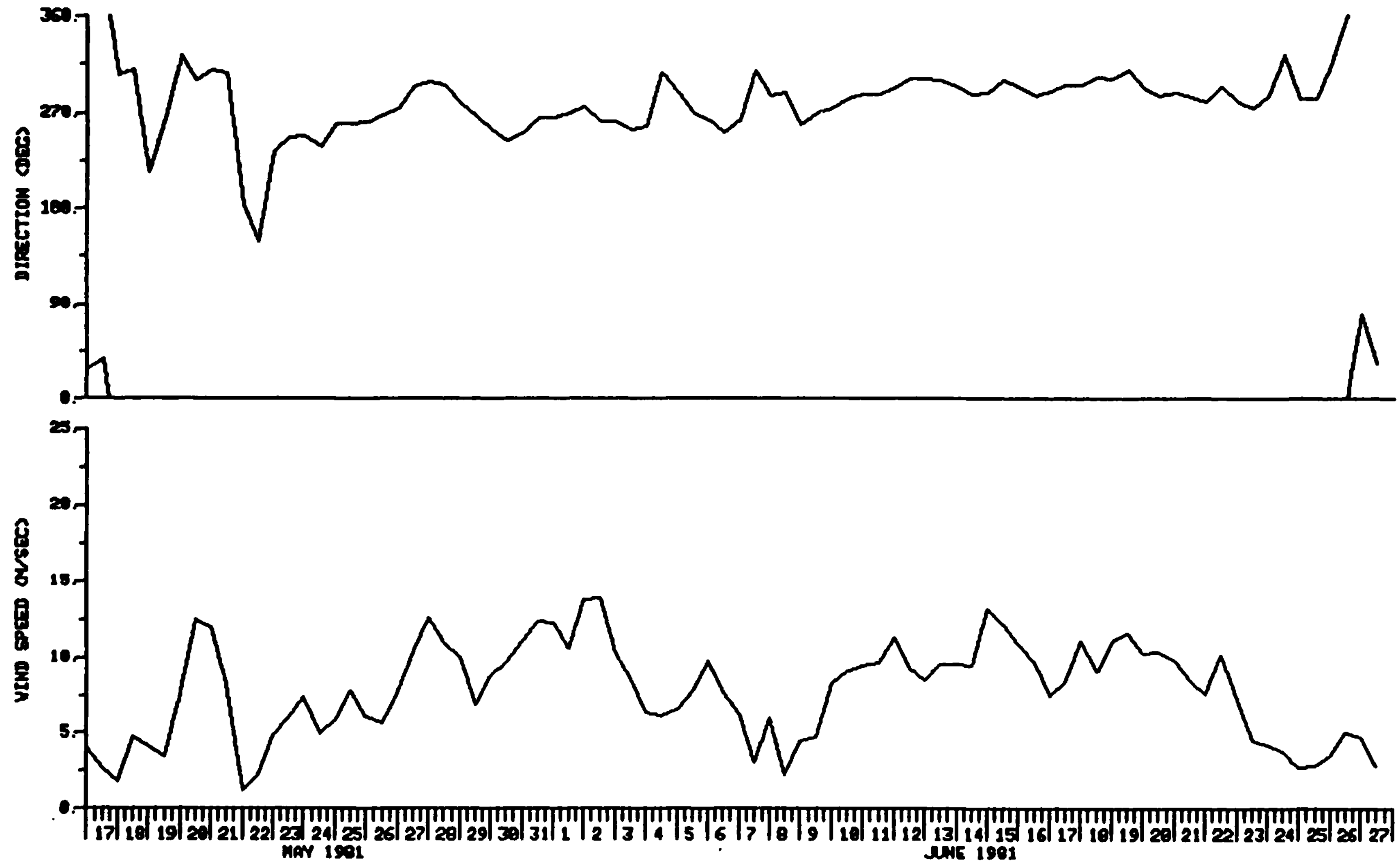
USCG BEAUFORT SEA STUDY

71.0 N 146.0 W



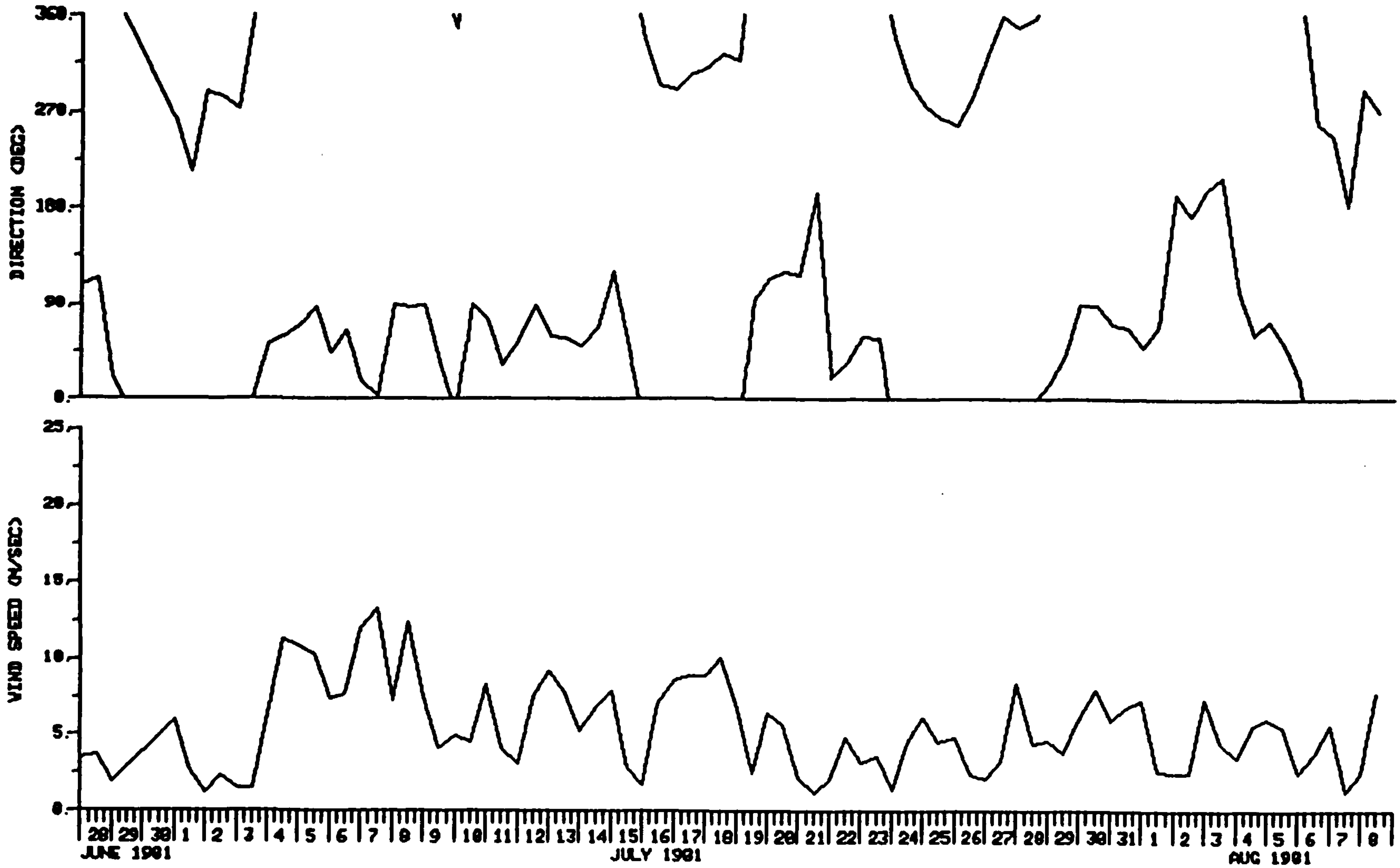
USCG BEAUFORT SEA STUDY

71.0 N 146.0 W



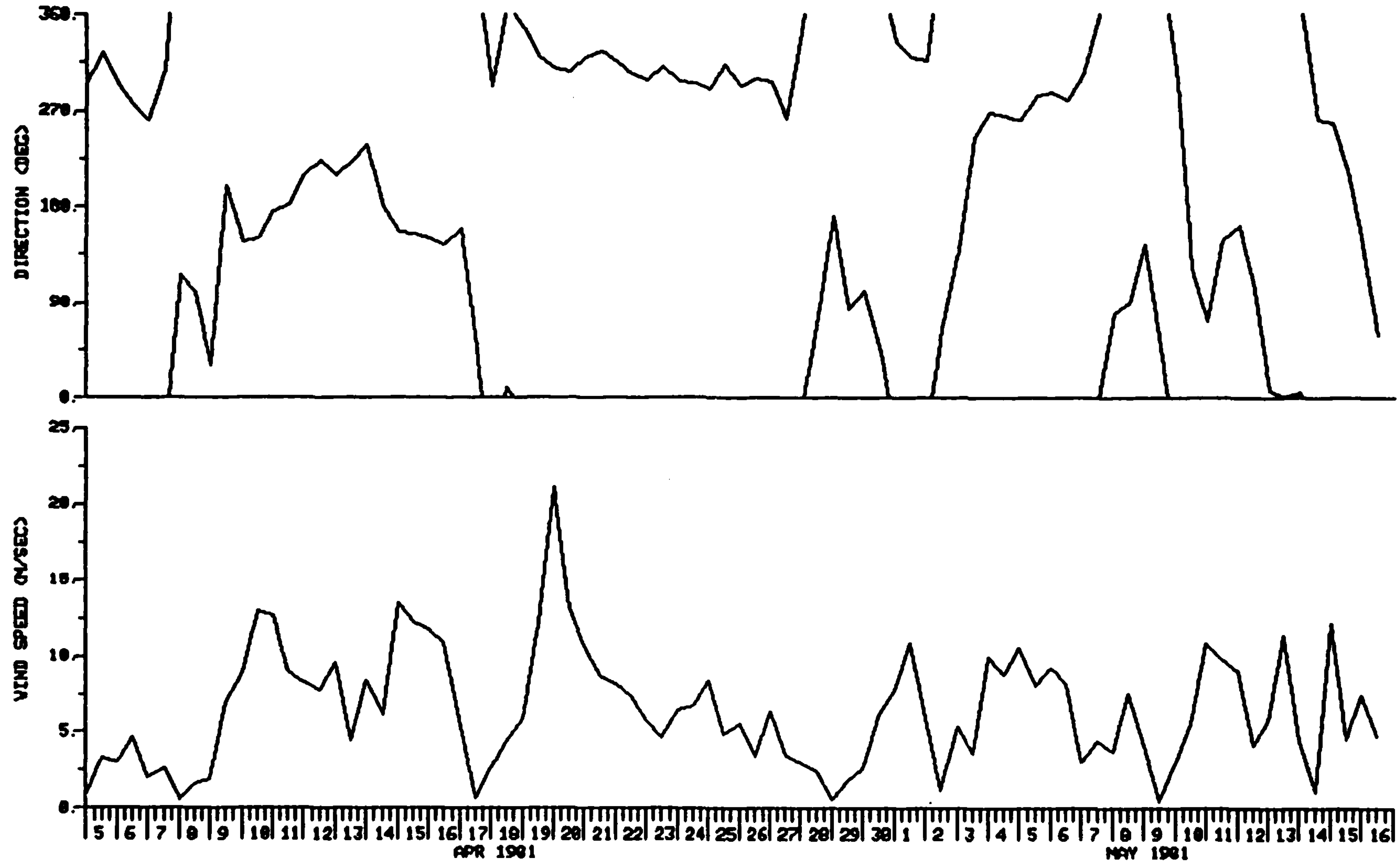
USCG BEAUFORT SEA STUDY

71.0 N 146.0 W

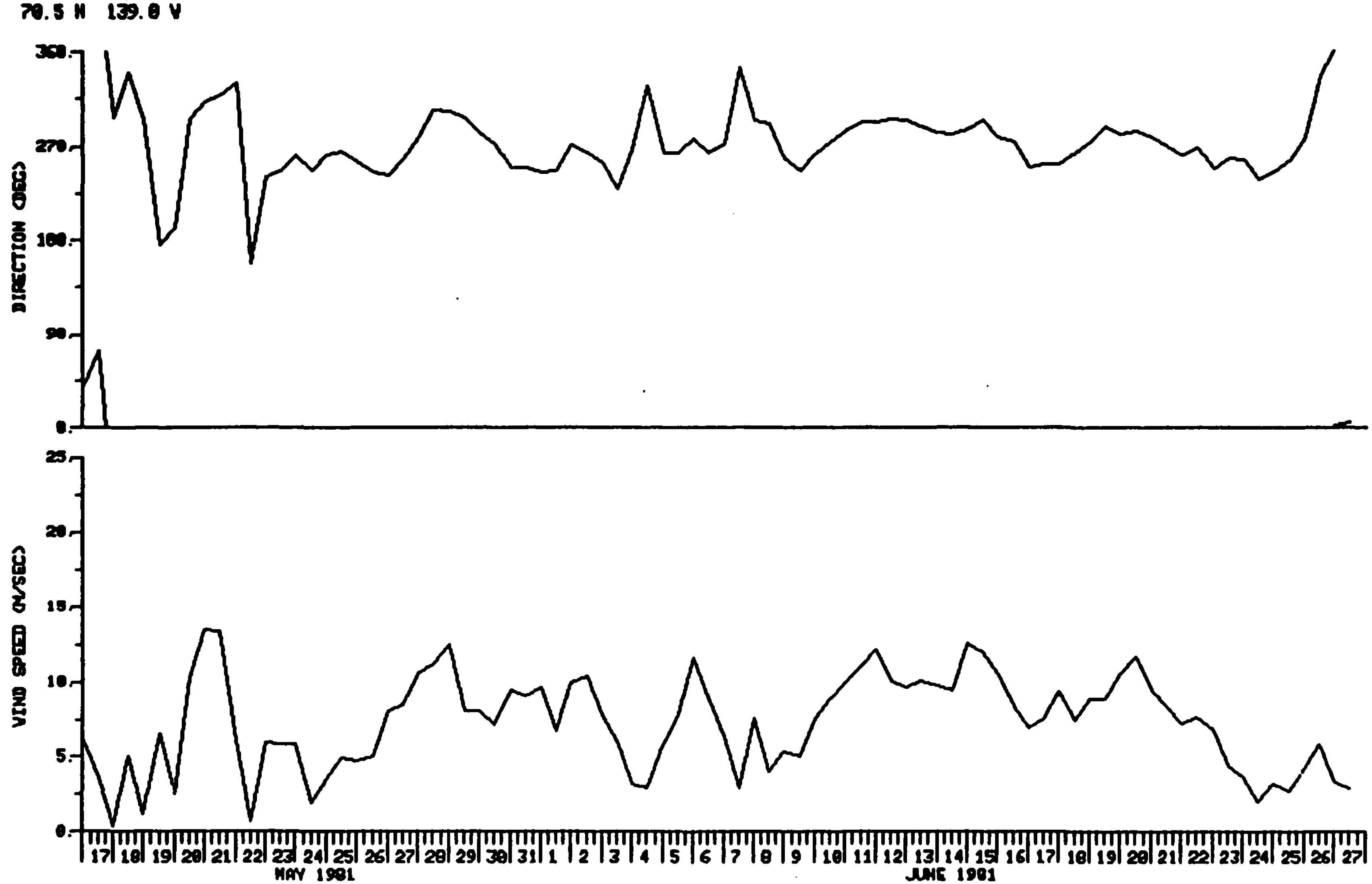


USCG BEAUFORT SEA STUDY

70.5 N 139.0 W

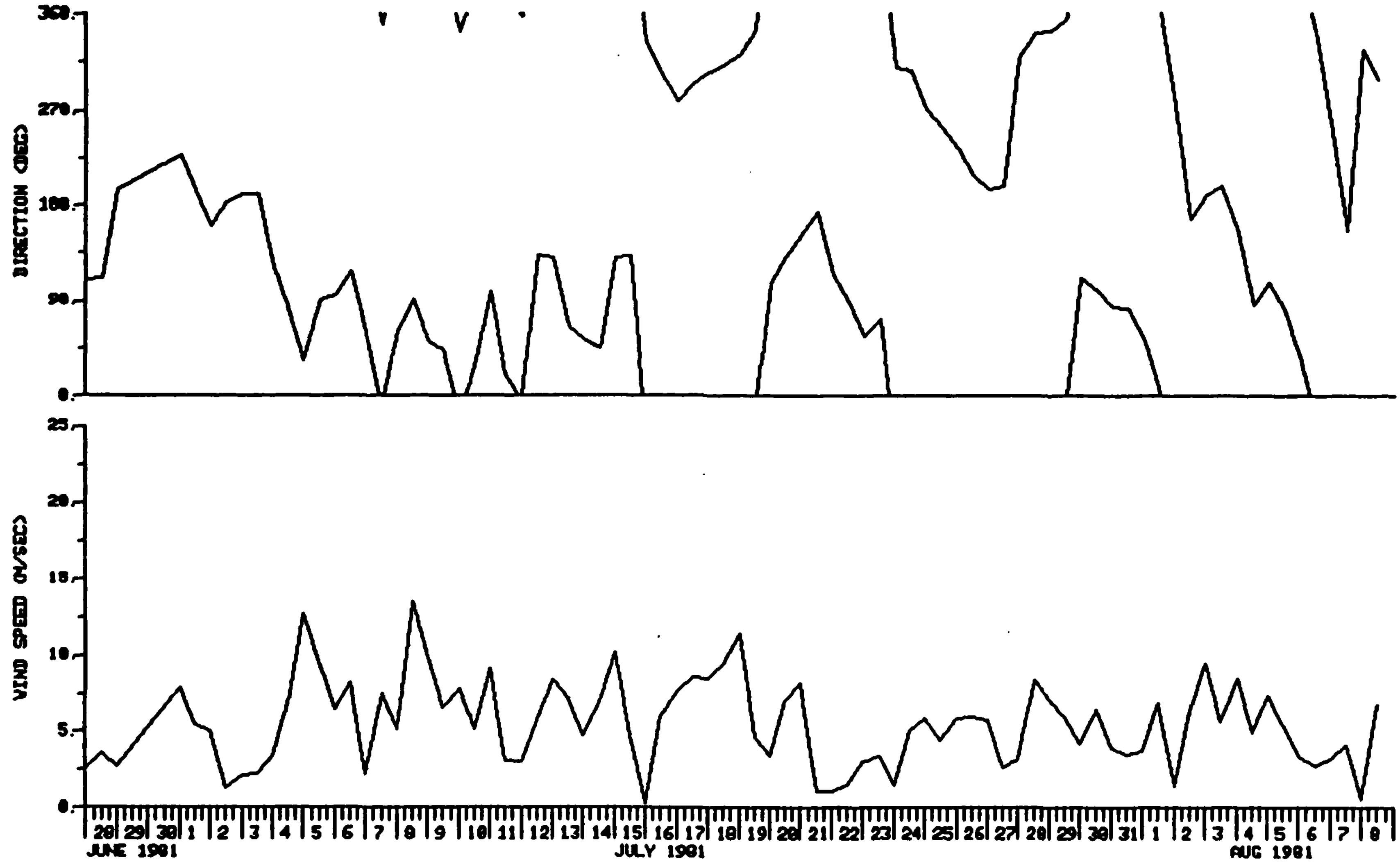


USCG BEAUFORT SEA STUDY



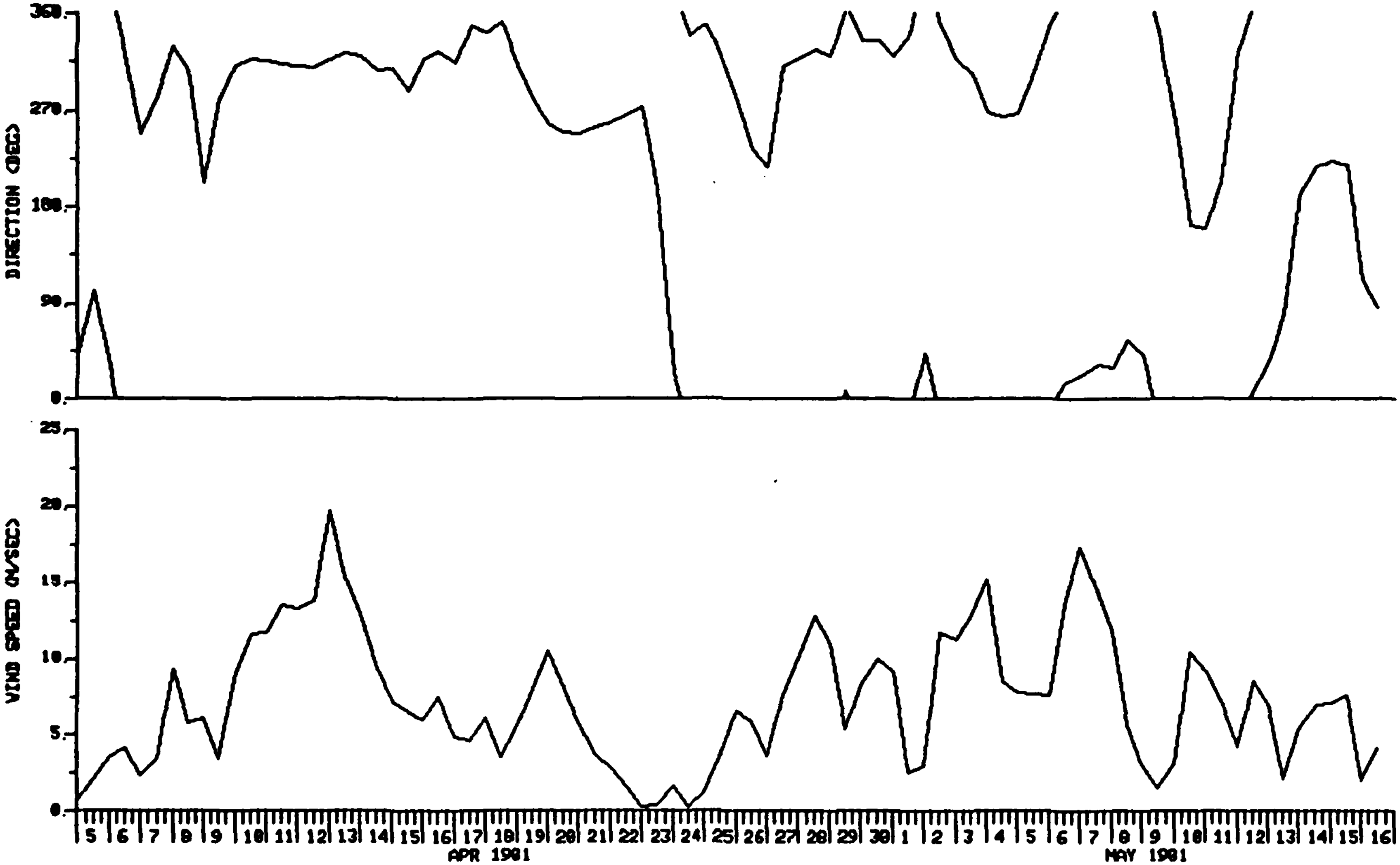
USCG BEAUFORT SEA STUDY

70.5 N 139.0 W



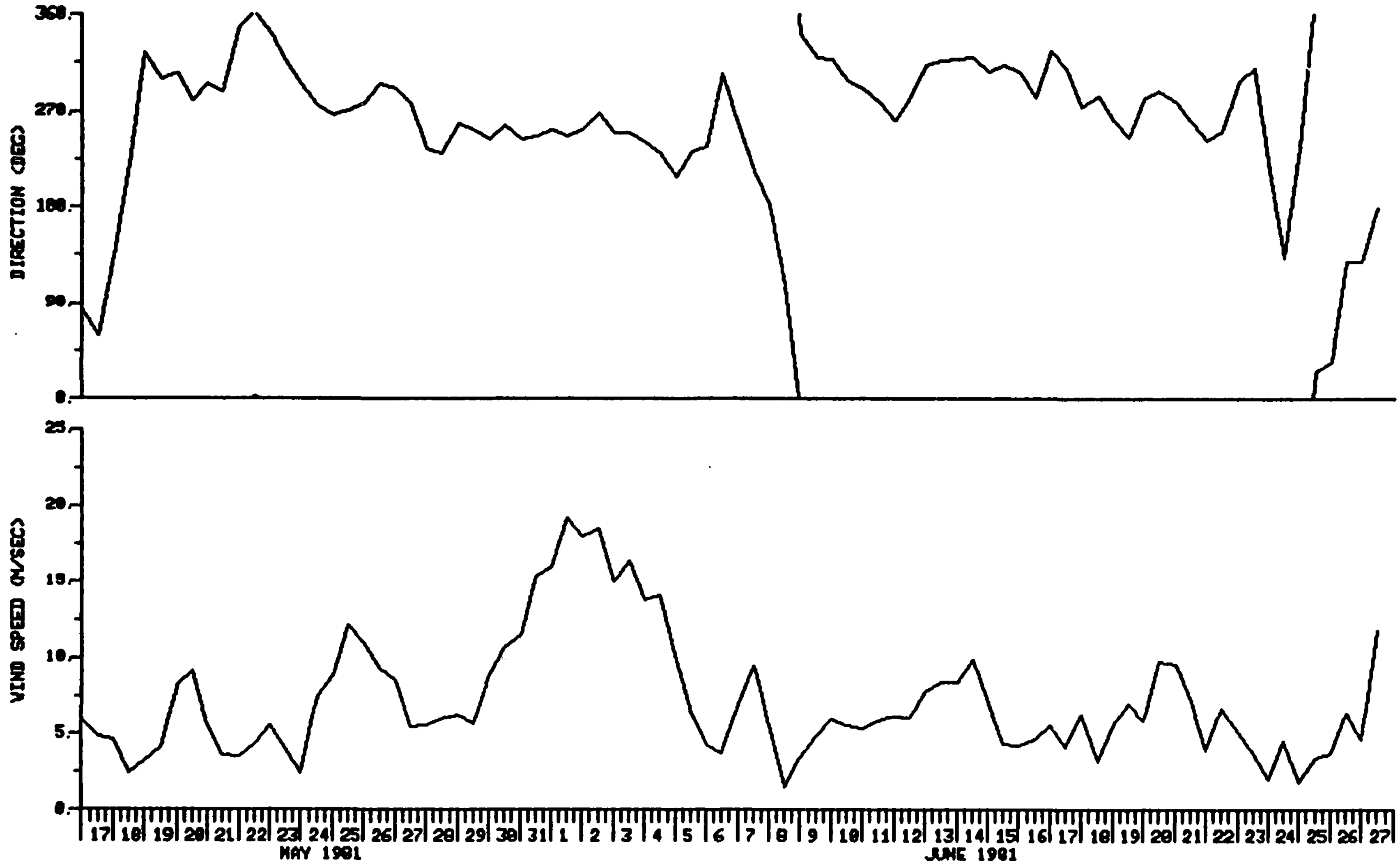
USCG BEAUFORT SEA STUDY

70.0 N 165.0 W



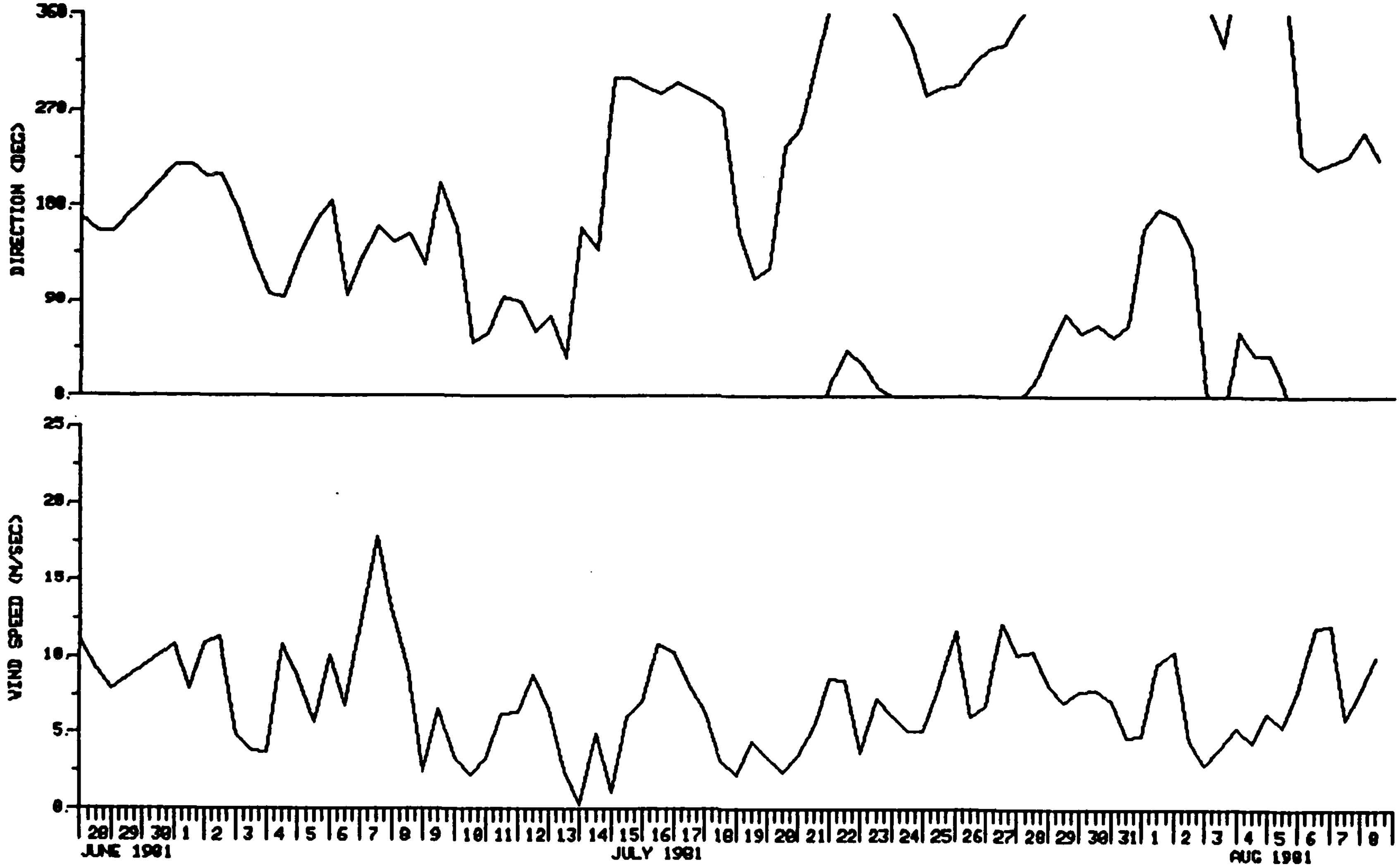
USCG BEAUFORT SEA STUDY

70.0 N 165.0 W



USCG BEAUFORT SEA STUDY

70.0 N 165.0 W

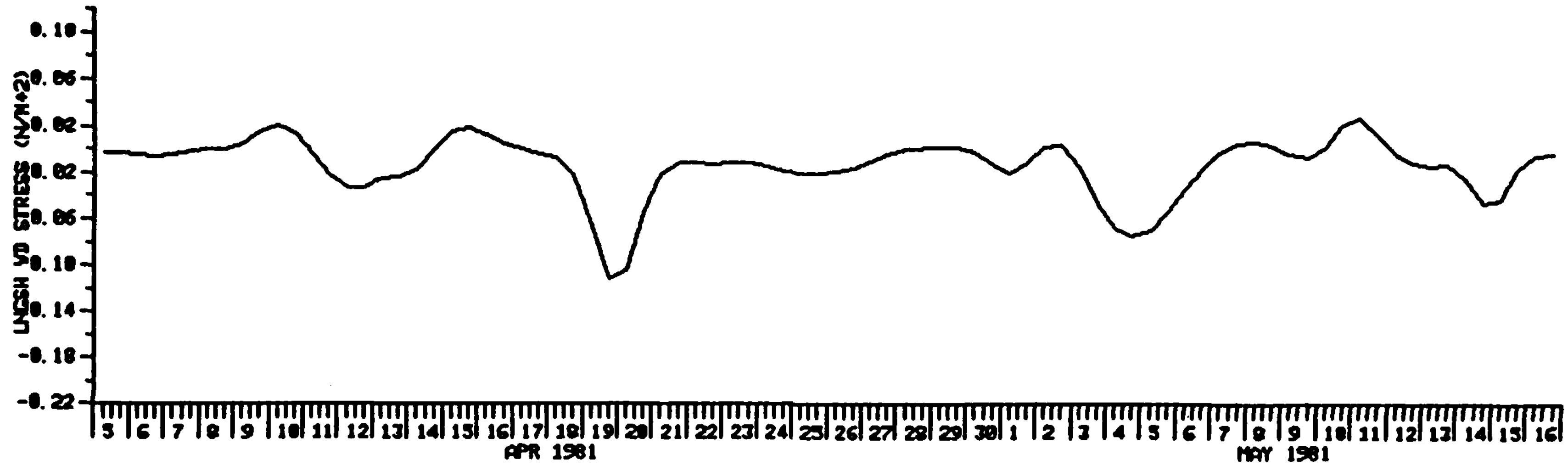


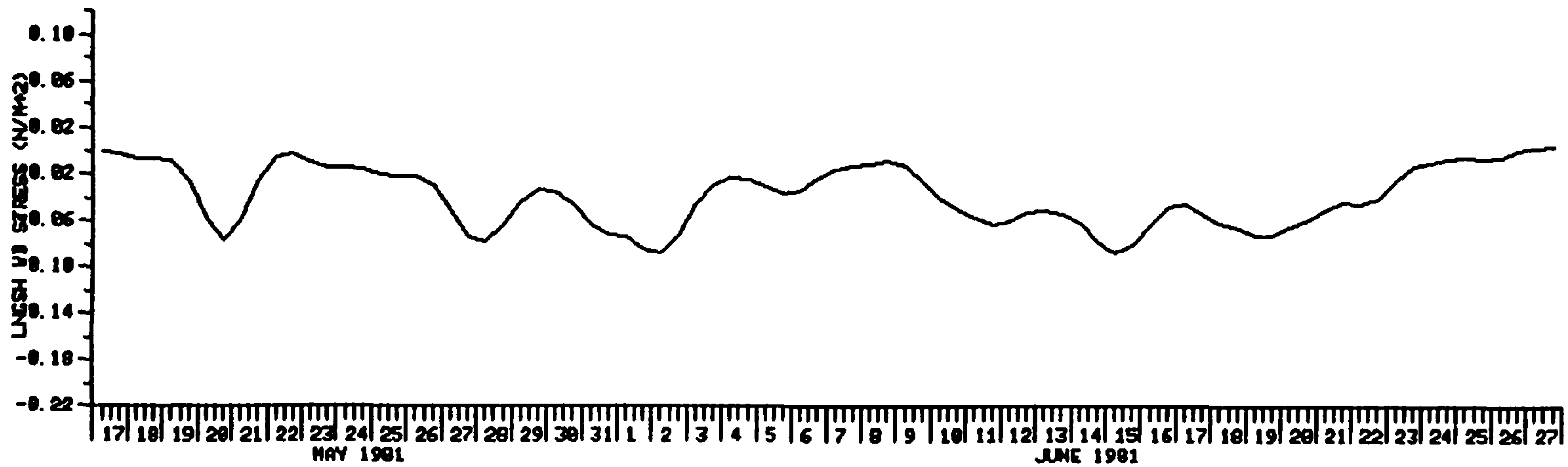
DATA APPENDIX 13

Time Series Plots of the Longshore and Offshore Components of the Wind Stress

USCG BEAUFORT SEA STUDY

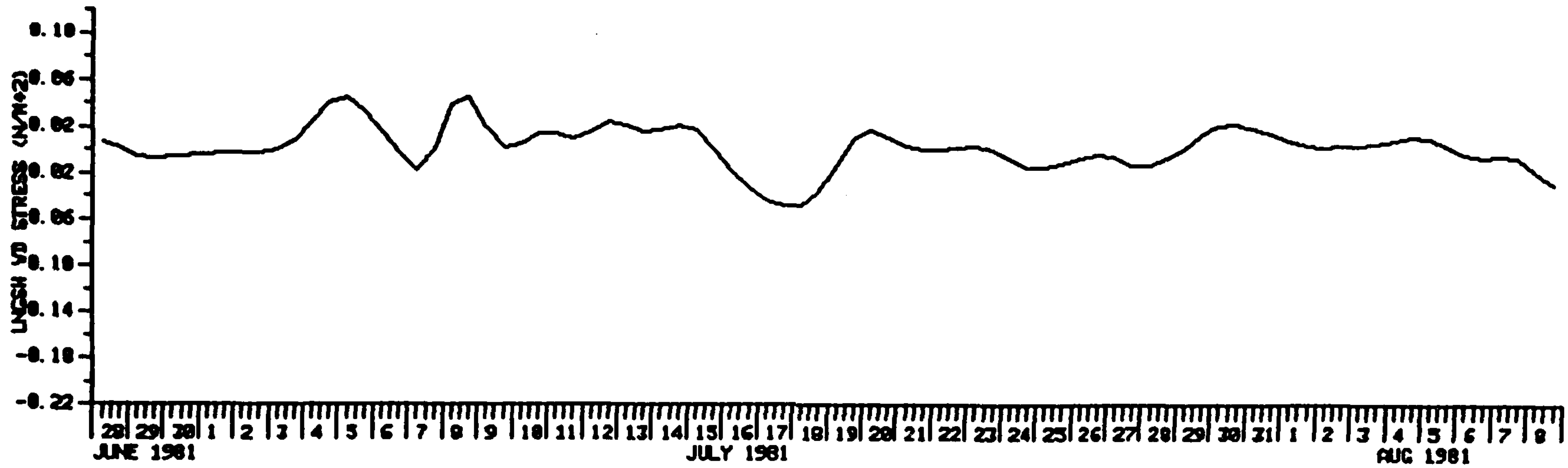
LONGSHORE 110 DEGREES TRUE AT 71.0 N 146.0 W FILTERED A_2^3





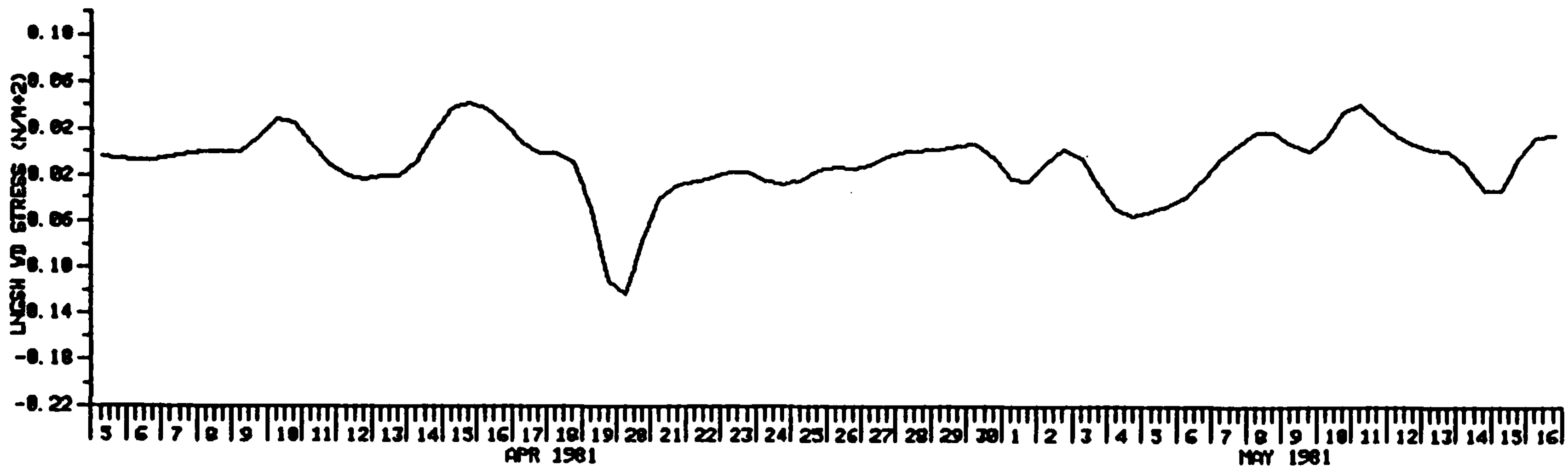
USCG BEAUFORT SEA STUDY

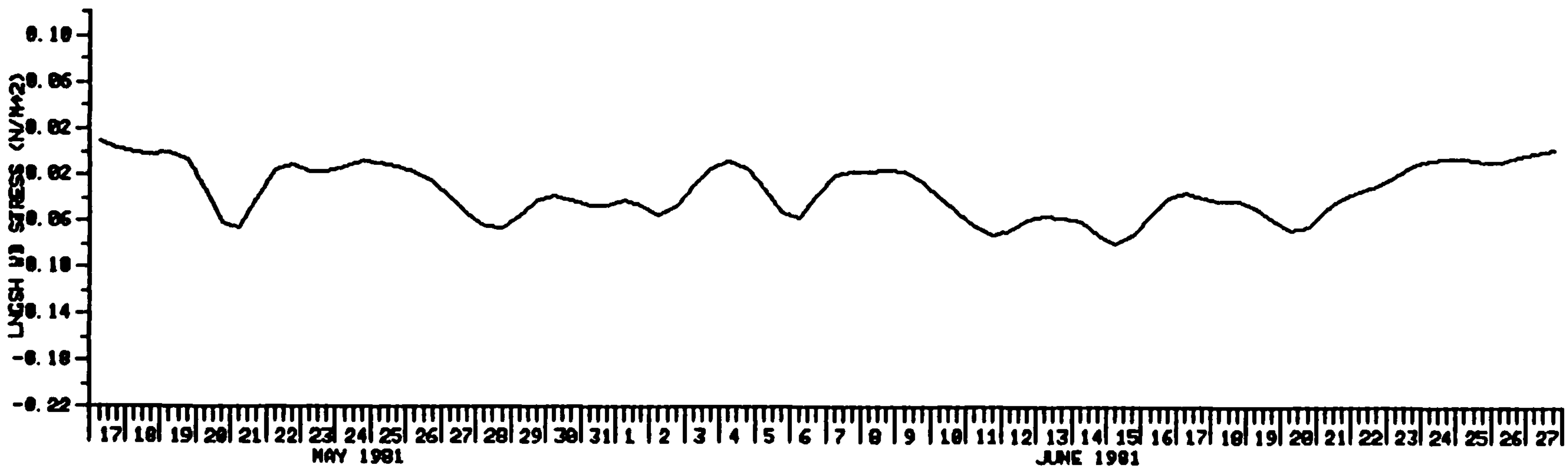
LONGSHORE 110 DEGREES TRUE AT 71.0 N 146.0 W FILTERED A_2^3



USCG BEAUFORT SEA STUDY

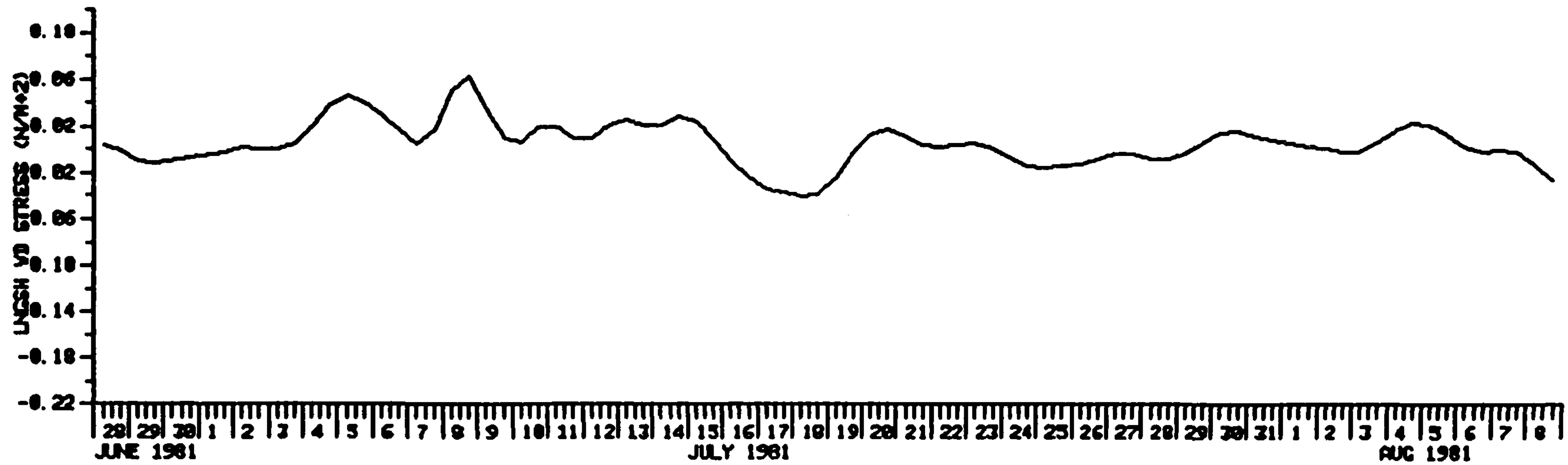
LONGSHORE 90 DEGREES TRUE AT 70.5 N 139.0 W FILTERED A_2^3





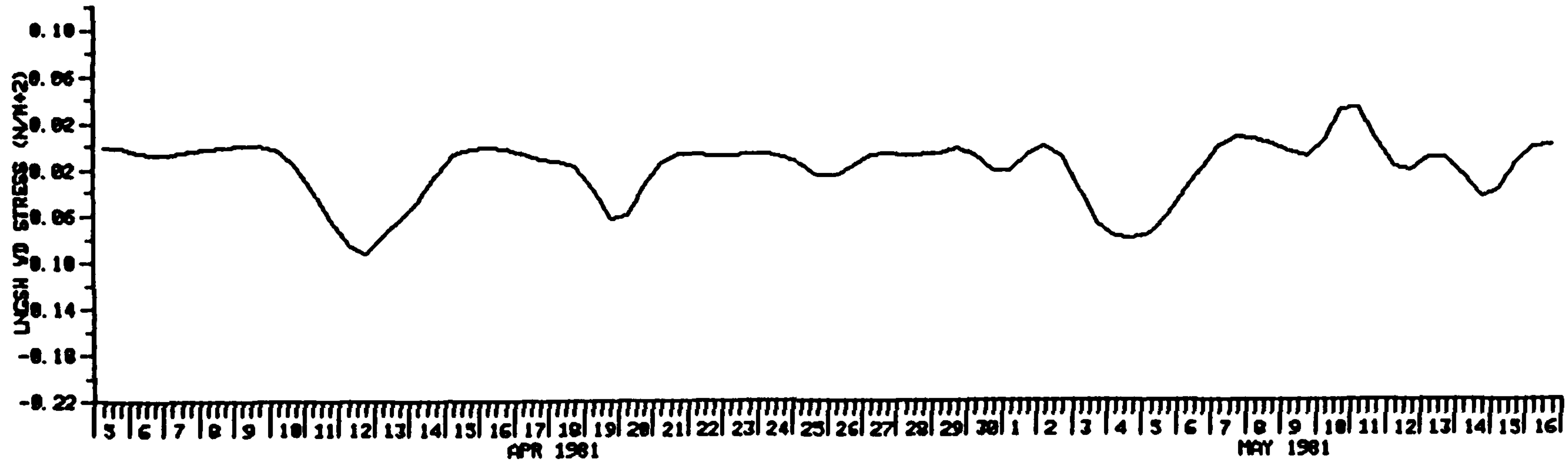
USCG BEAUFORT SEA STUDY

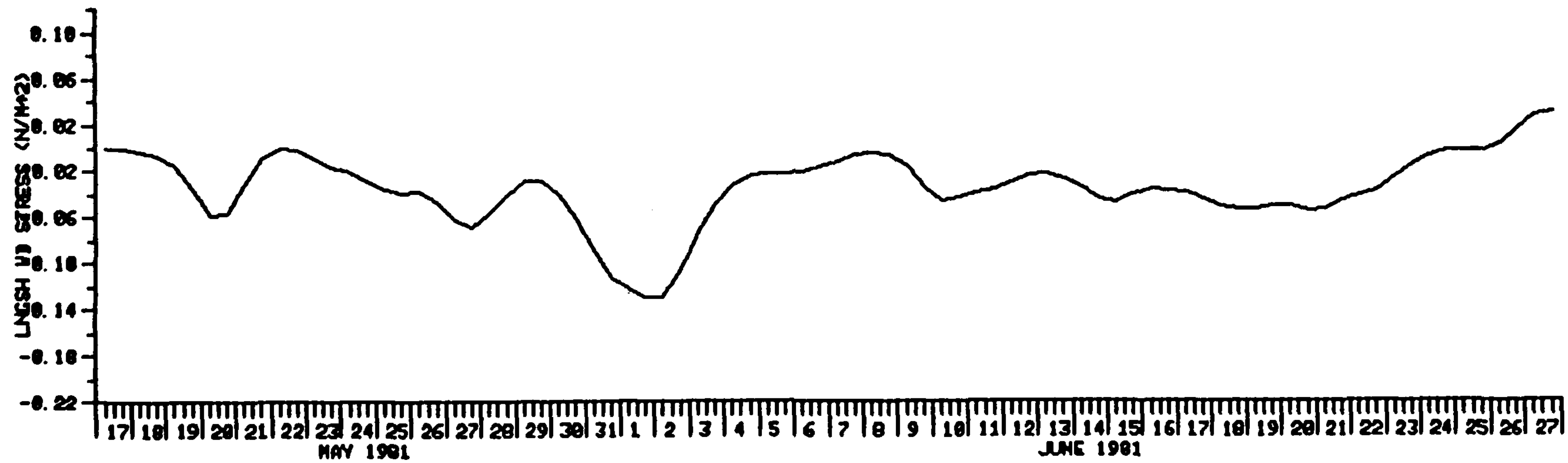
LONGSHORE 90 DEGREES TRUE AT 70.5 N 139.0 W FILTERED A_2^3



USCG BEAUFORT SEA STUDY

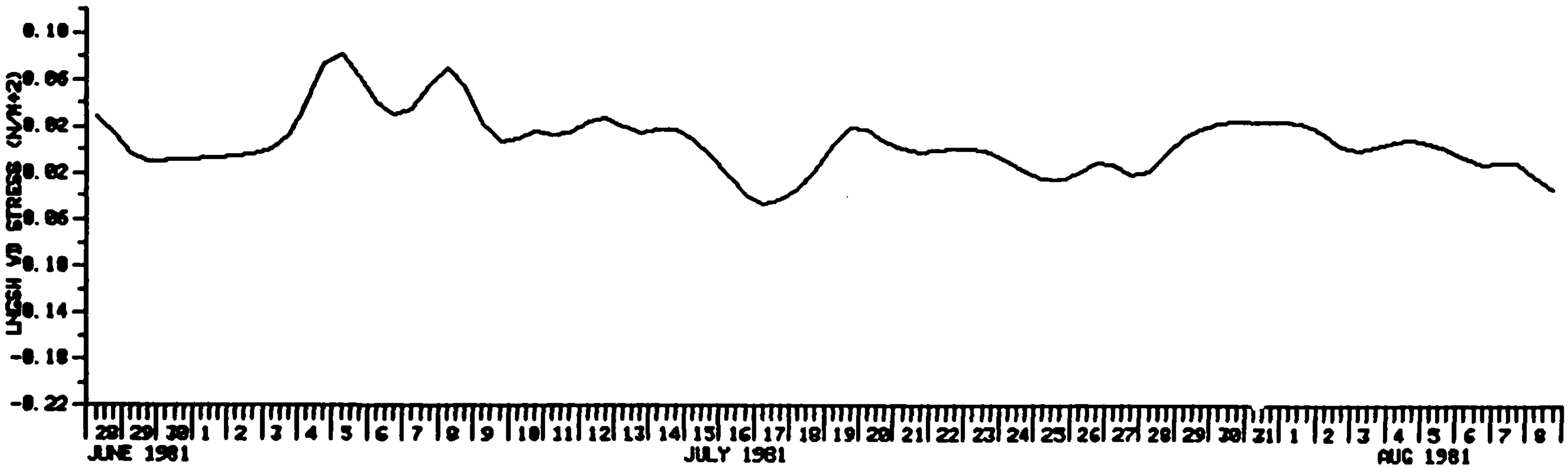
LONGSHORE 120 DEGREES TRUE AT 71.5 N 153.0 W FILTERED A_2^3





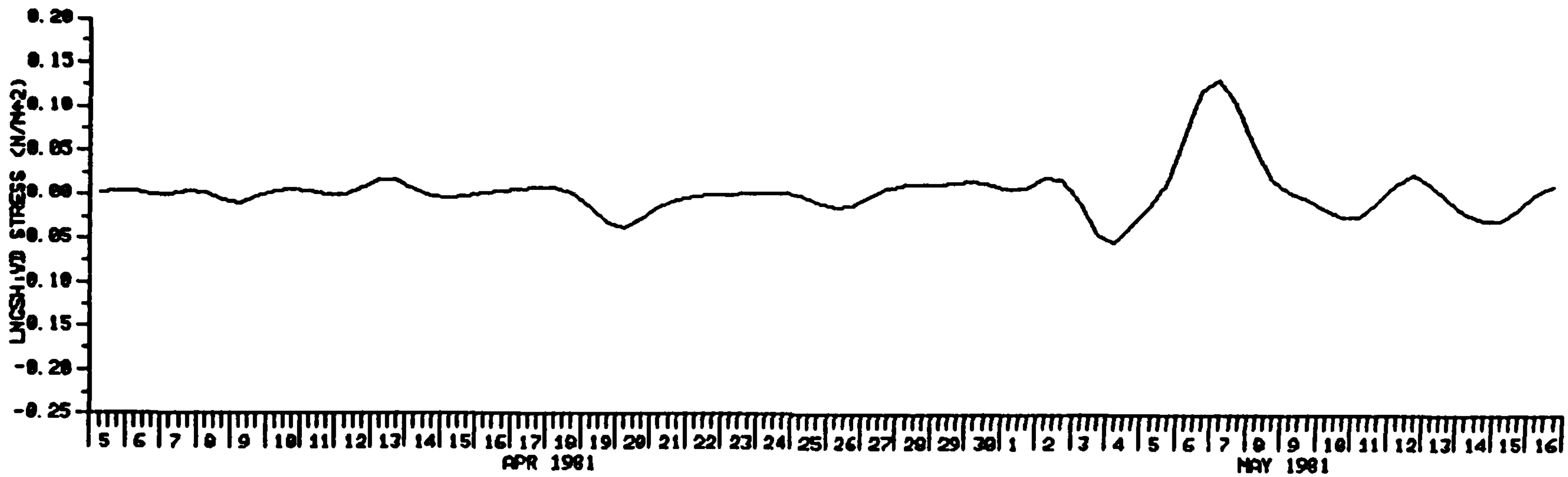
USCG BEAUFORT SEA STUDY

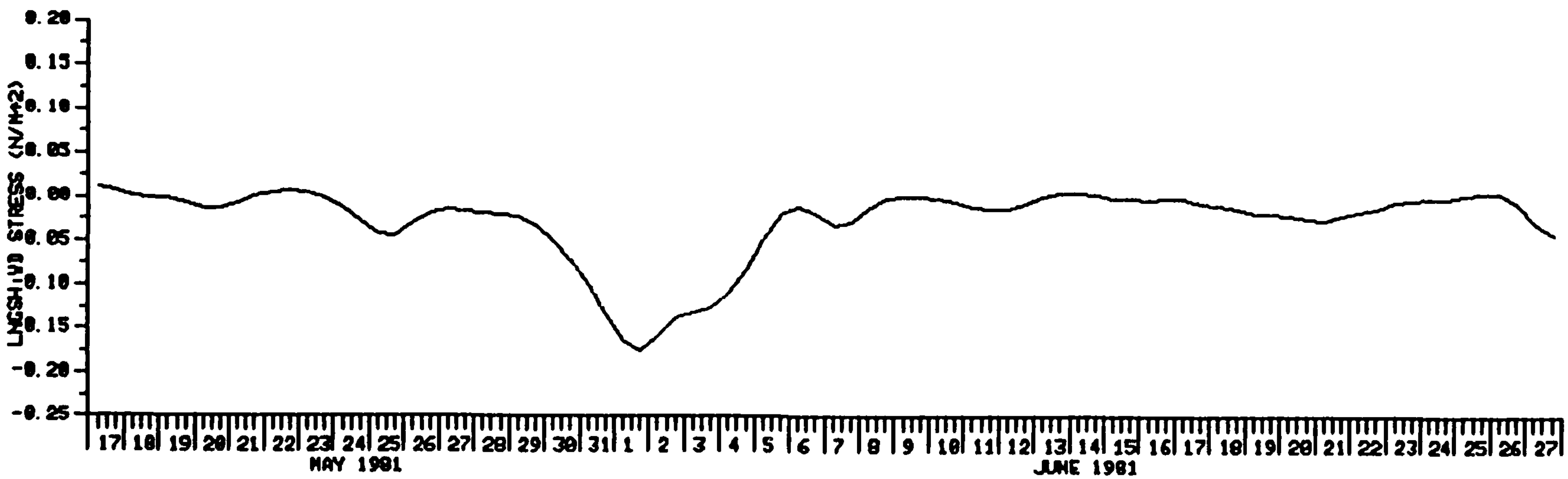
LONGSHORE 120 DEGREES TRUE AT 71.5 N 153.0 W FILTERED A_2^3



USCG BEAUFORT SEA STUDY

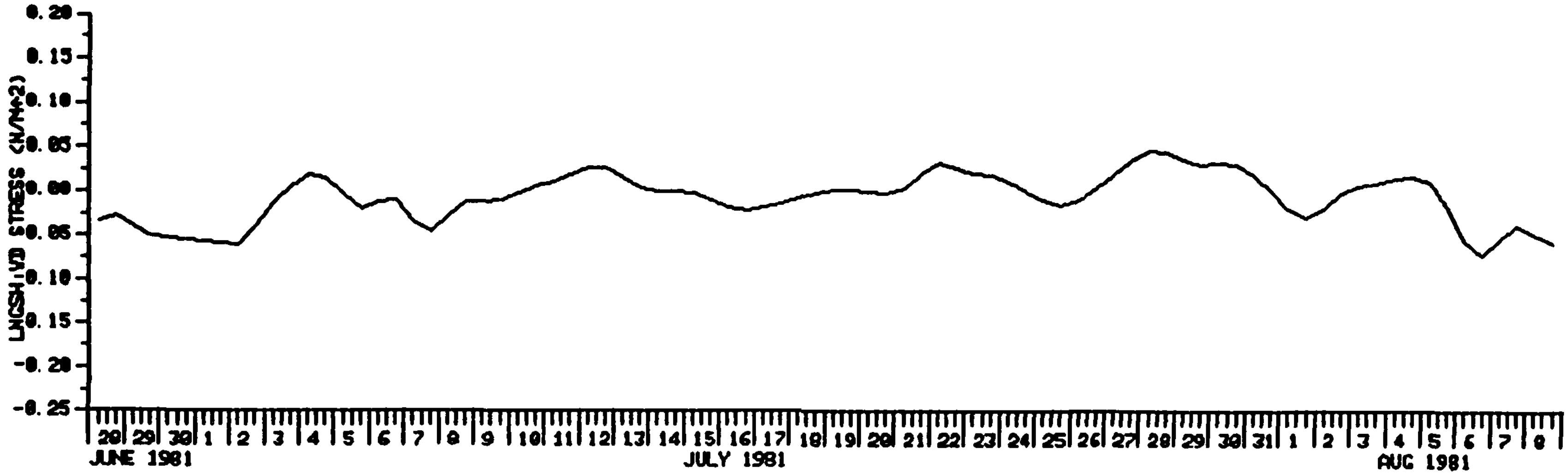
LONGSHORE 42 DEGREES TRUE AT 70.0 N 165.0 W FILTERED A_2^3





USCG BEAUFORT SEA STUDY

LONGSHORE 42 DEGREES TRUE AT 70.0 N 165.0 W FILTERED A_2^3

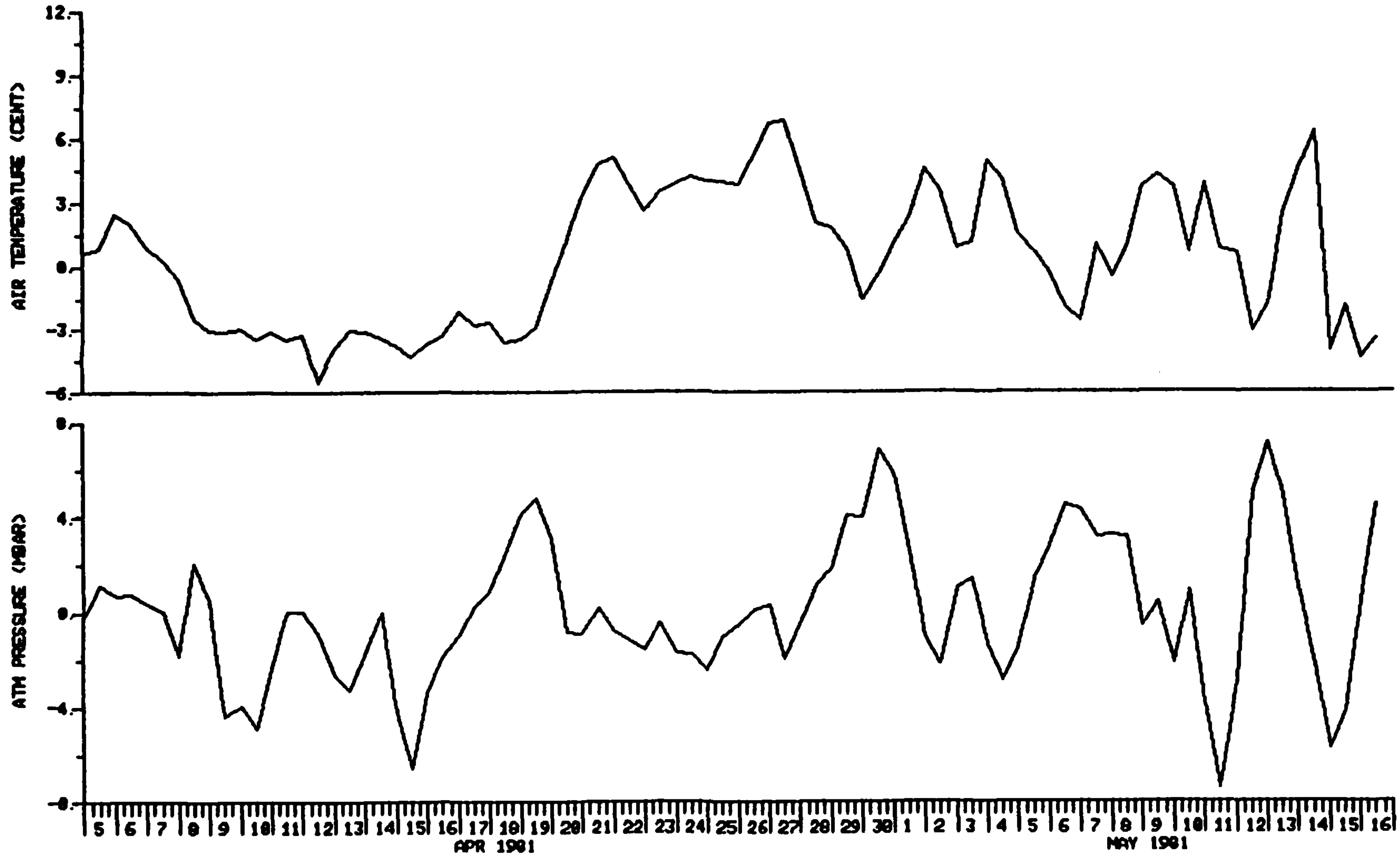


DATA APPENDIX 14

Time Series Plots of the Differences in Atmospheric Pressure and Air Temperature among Selected Points

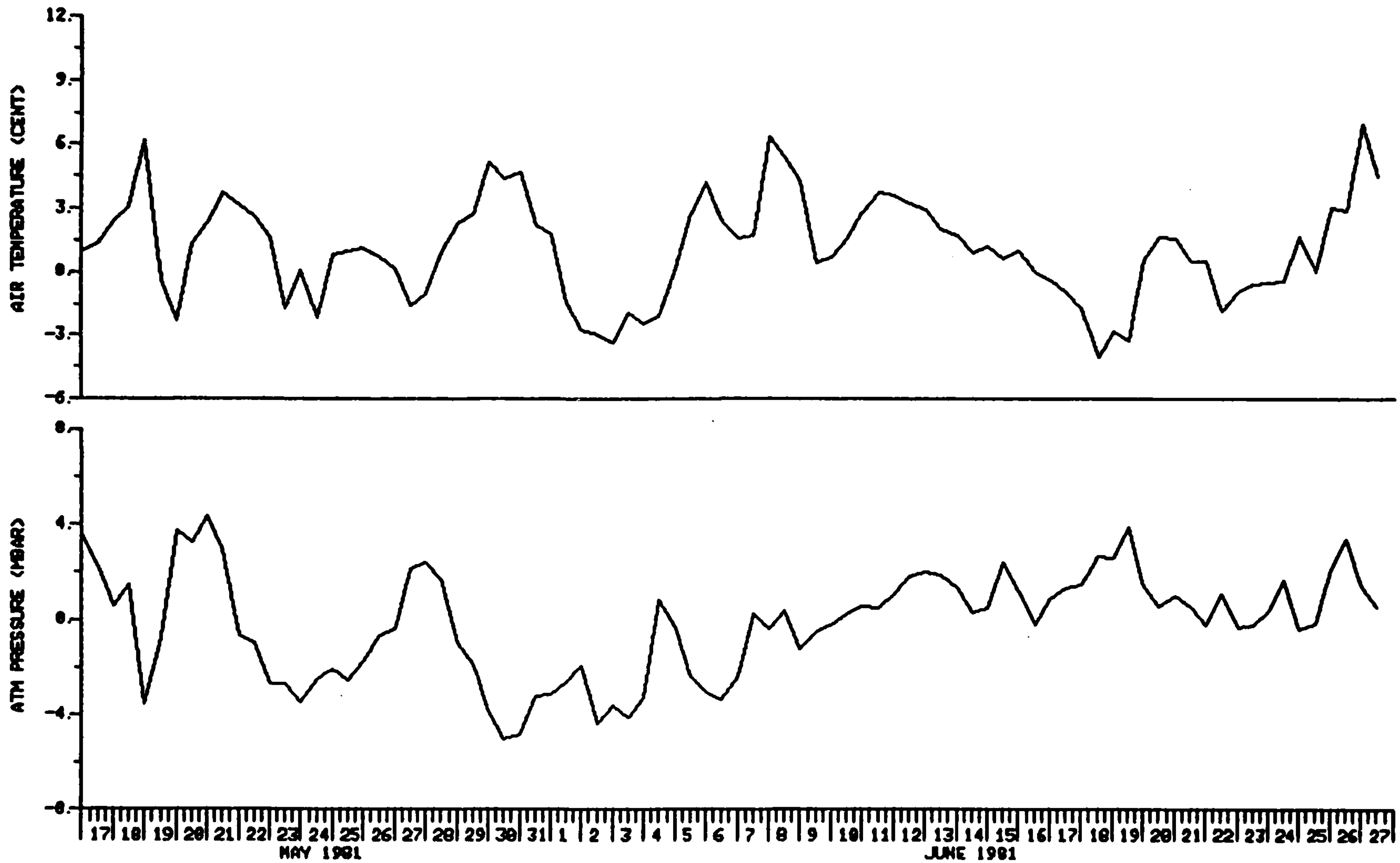
USCG BEAUFORT SEA STUDY

DIFFERENCE BEWTEEN LOCATIONS 70.5 W 139.0 N AND 71.5 N 153.0 W



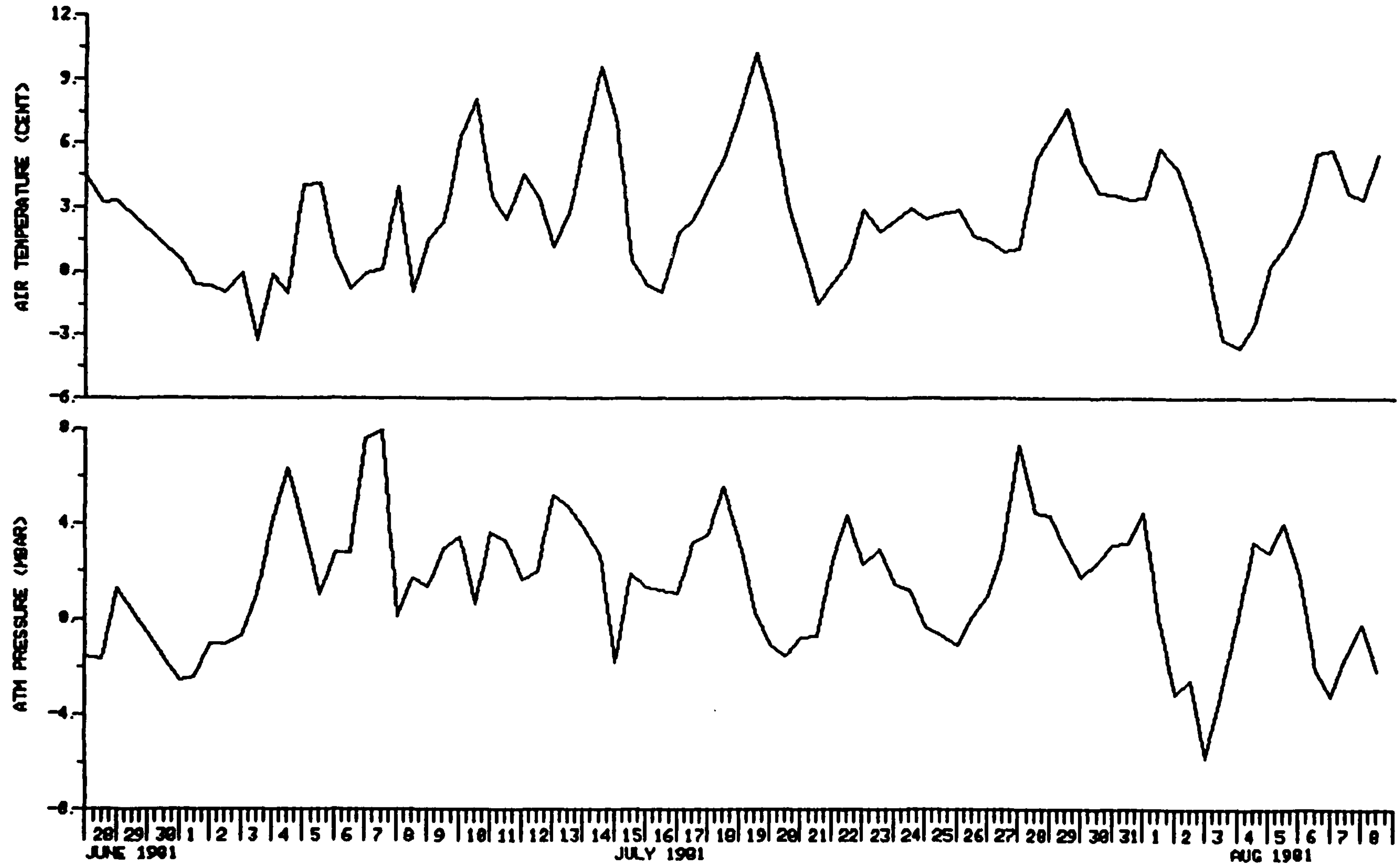
USCG BEAUFORT SEA STUDY

DIFFERENCE BEWTEEN LOCATIONS 70.5 W 139.0 N AND 71.5 N 153.0 W



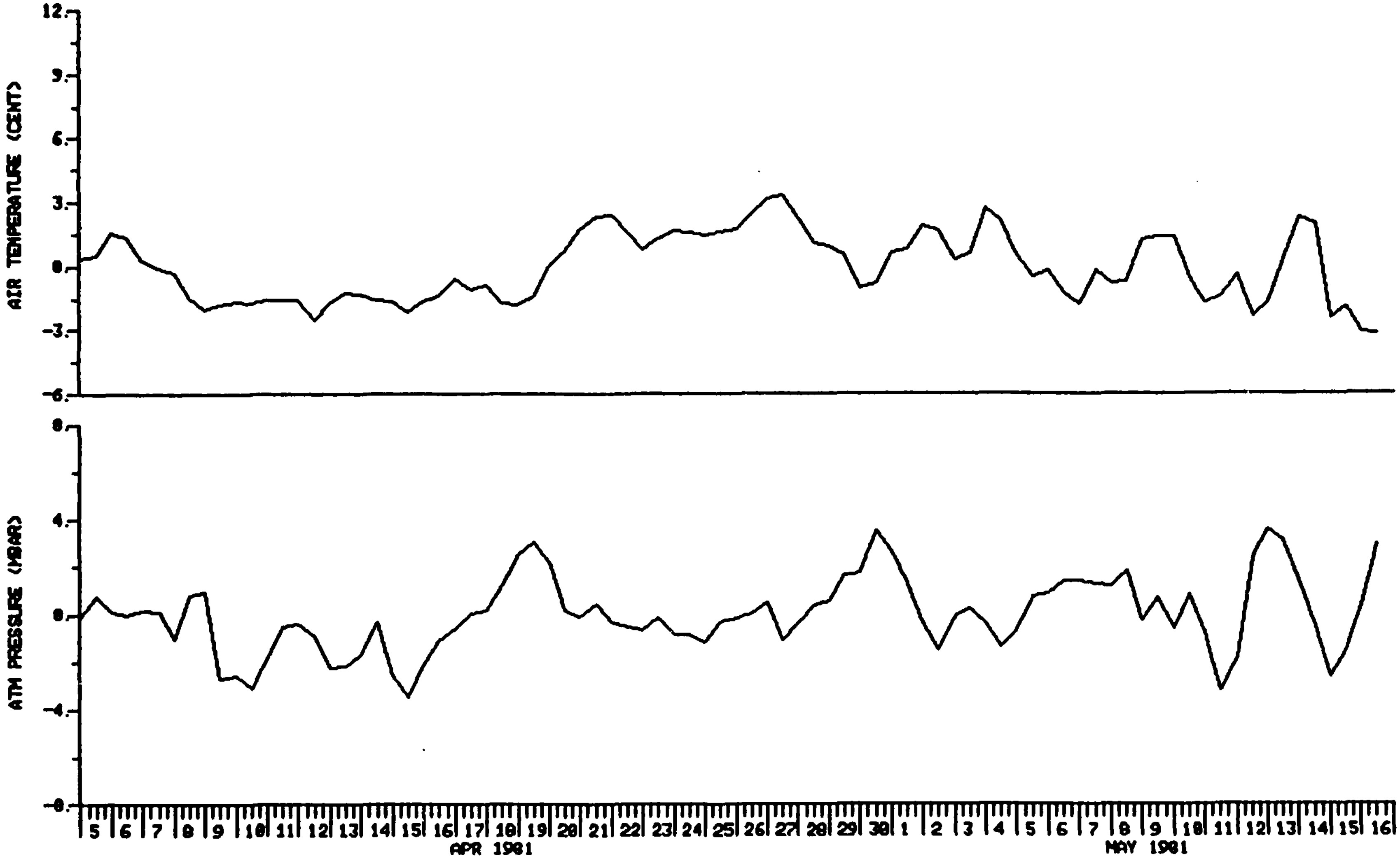
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 70.5 N 139.0 W AND 71.5 N 153.0 W



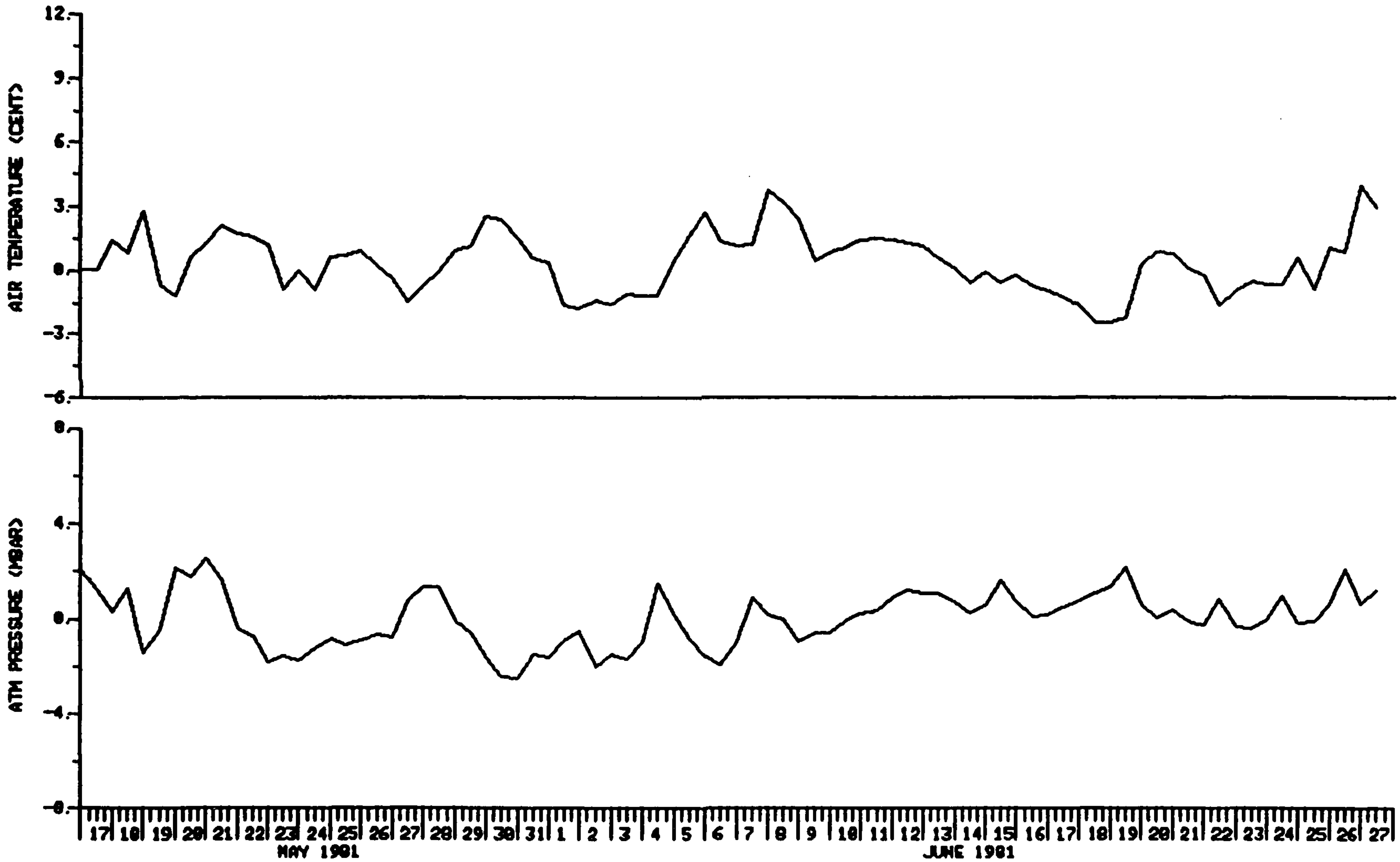
USCG BEAUFORT SEA STUDY

DIFFERENCE BEWTEEN LOCATIONS 70.5 N 139.0 W AND 71.0 N 146.0 W



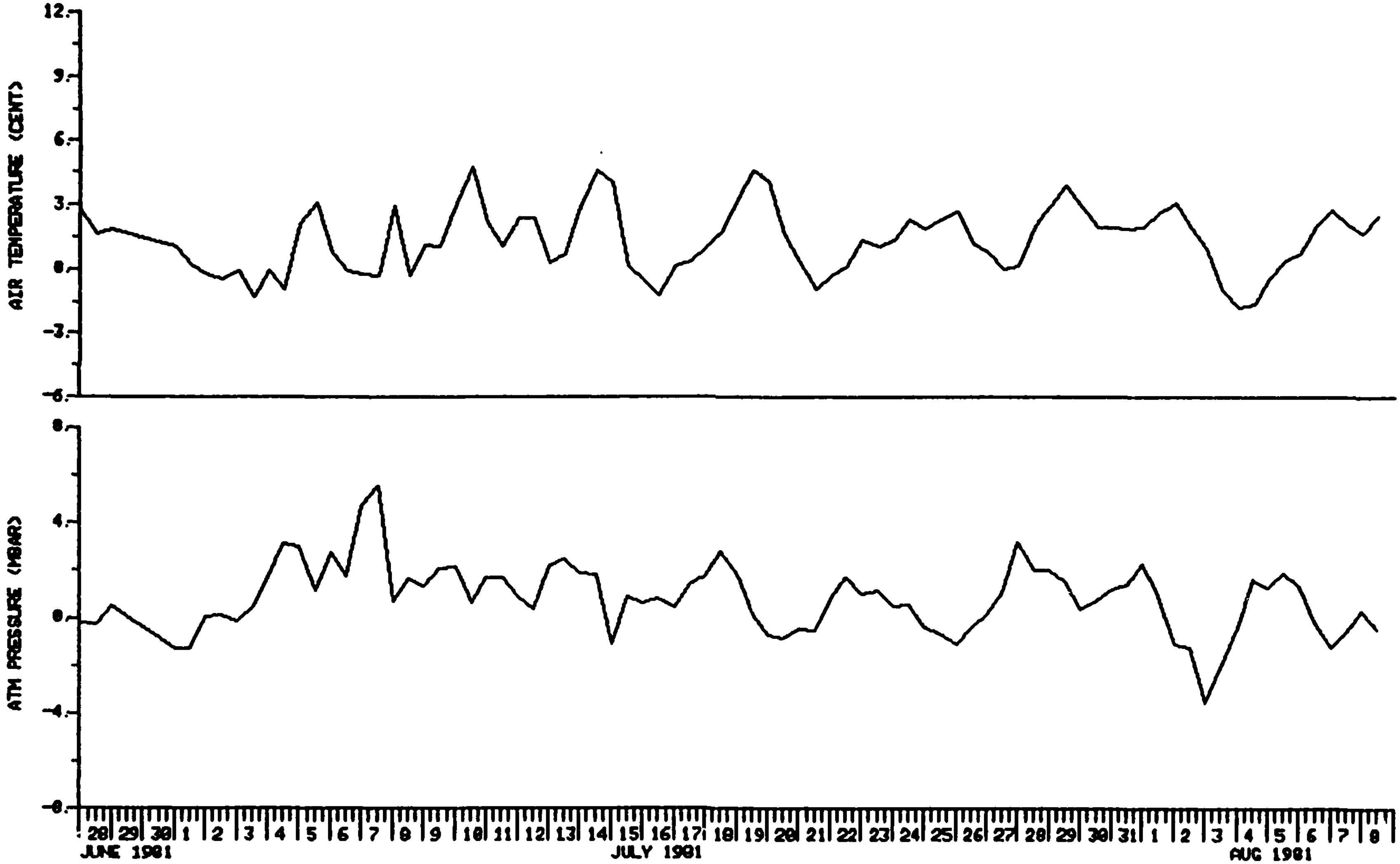
USCG BEAUFORT SEA STUDY

DIFFERENCE BEWTEEN LOCATIONS 70.5 N 139.0 W AND 71.0 N 146.0 W



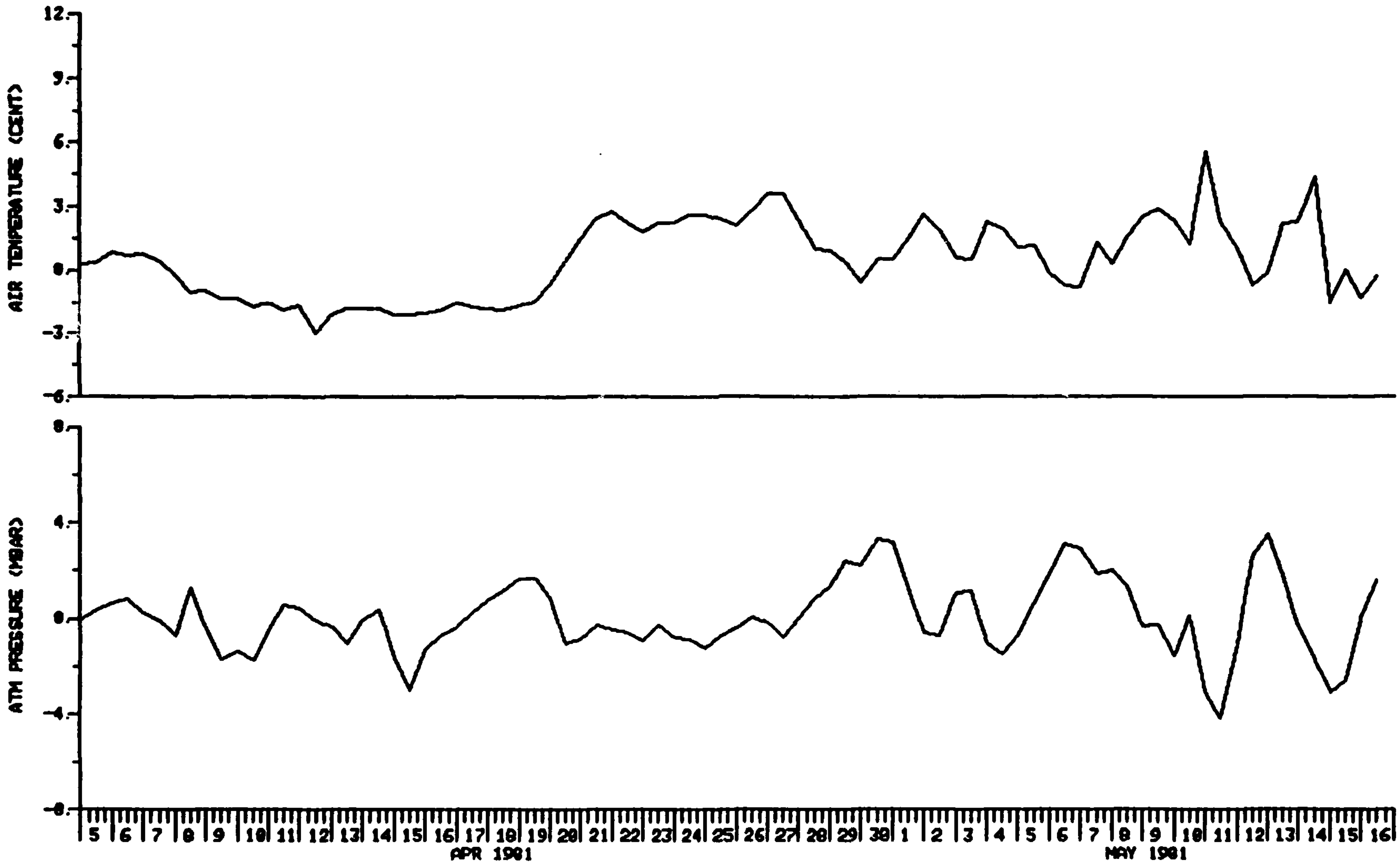
USCG BEAUFORT SEA STUDY

DIFFERENCE BEWTEEN LOCATIONS 70.5 N 139.0 W AND 71.0 N 146.0 W



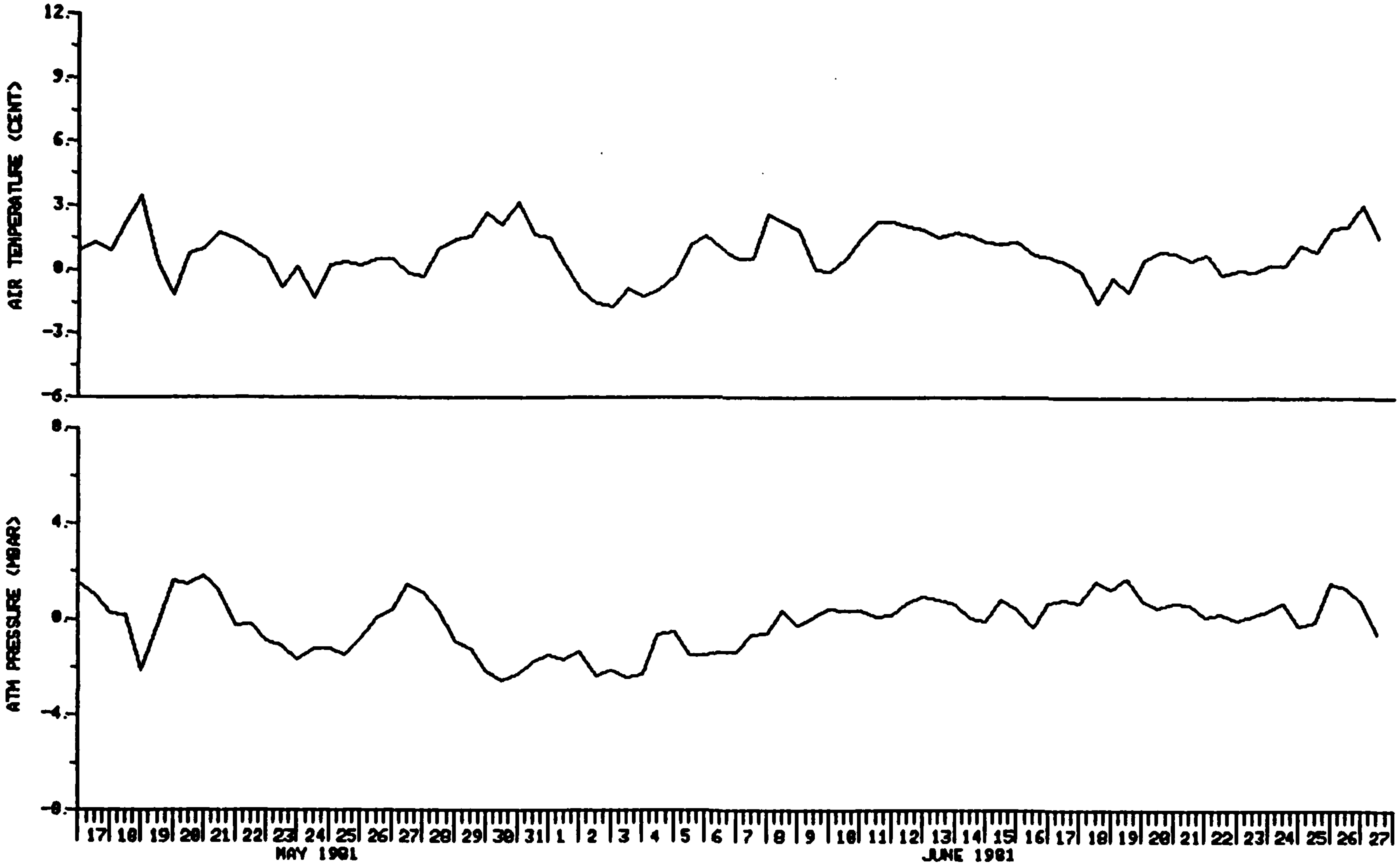
USCG BEAUFORT SEA STUDY

DIFFERENCE BEWTEEN LOCATIONS 71.0 N 146.0 W AND 71.5 N 153.0 W



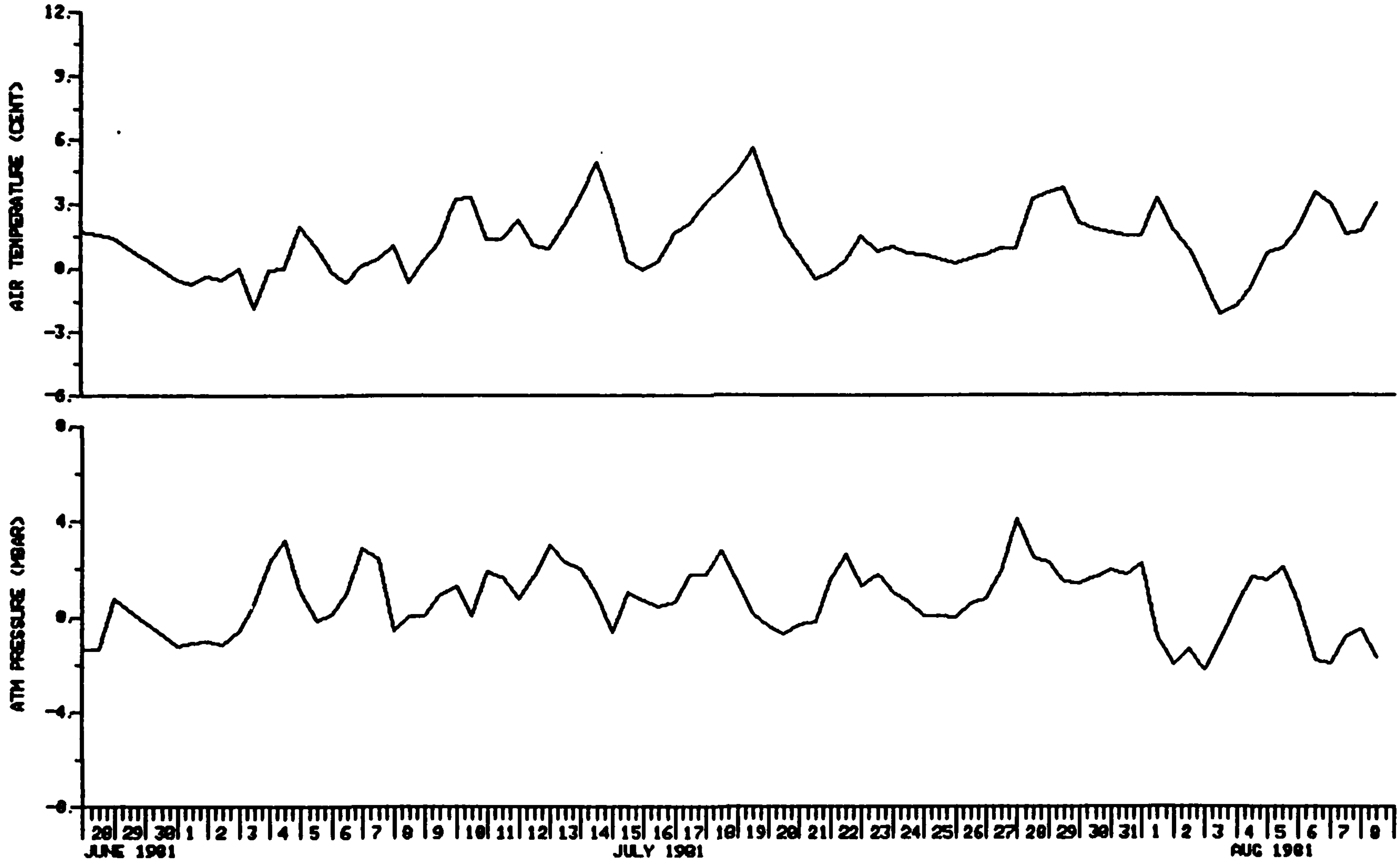
USCG BEAUFORT SEA STUDY

DIFFERENCE BEWTEEN LOCATIONS 71.0 N 146.0 W AND 71.5 N 153.0 W



USCG BEAUFORT SEA STUDY

DIFFERENCE BEWTEEN LOCATIONS 71.0 N 146.0 W AND 71.5 N 153.0 W

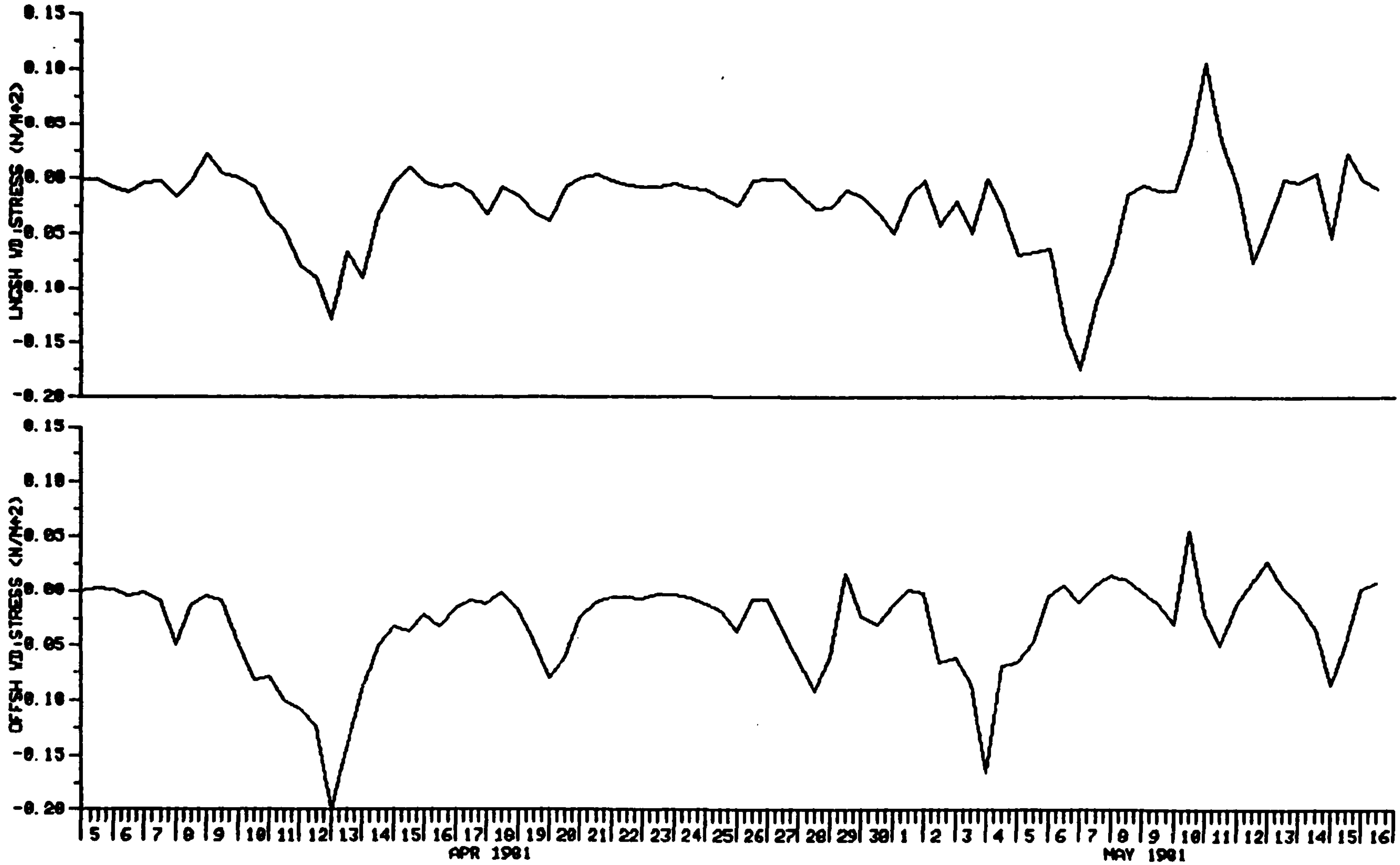


DATA APPENDIX 15

Time Series Plots of the Differences in Longshore and Offshore Wind Stress Components between Selected Points

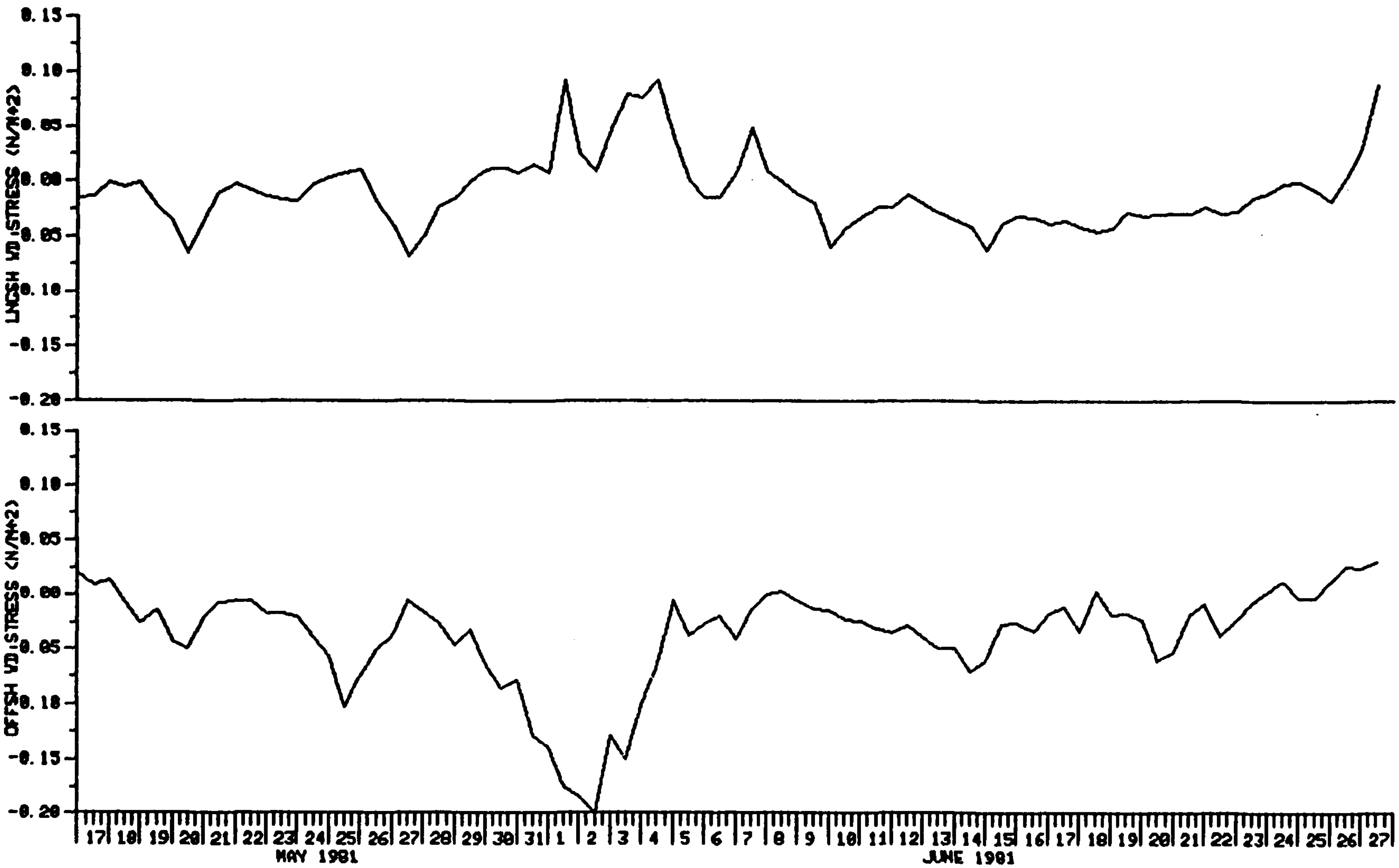
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.5 N 153.0 W AND 70.0 N 165.0 W FILTERED A_2^1



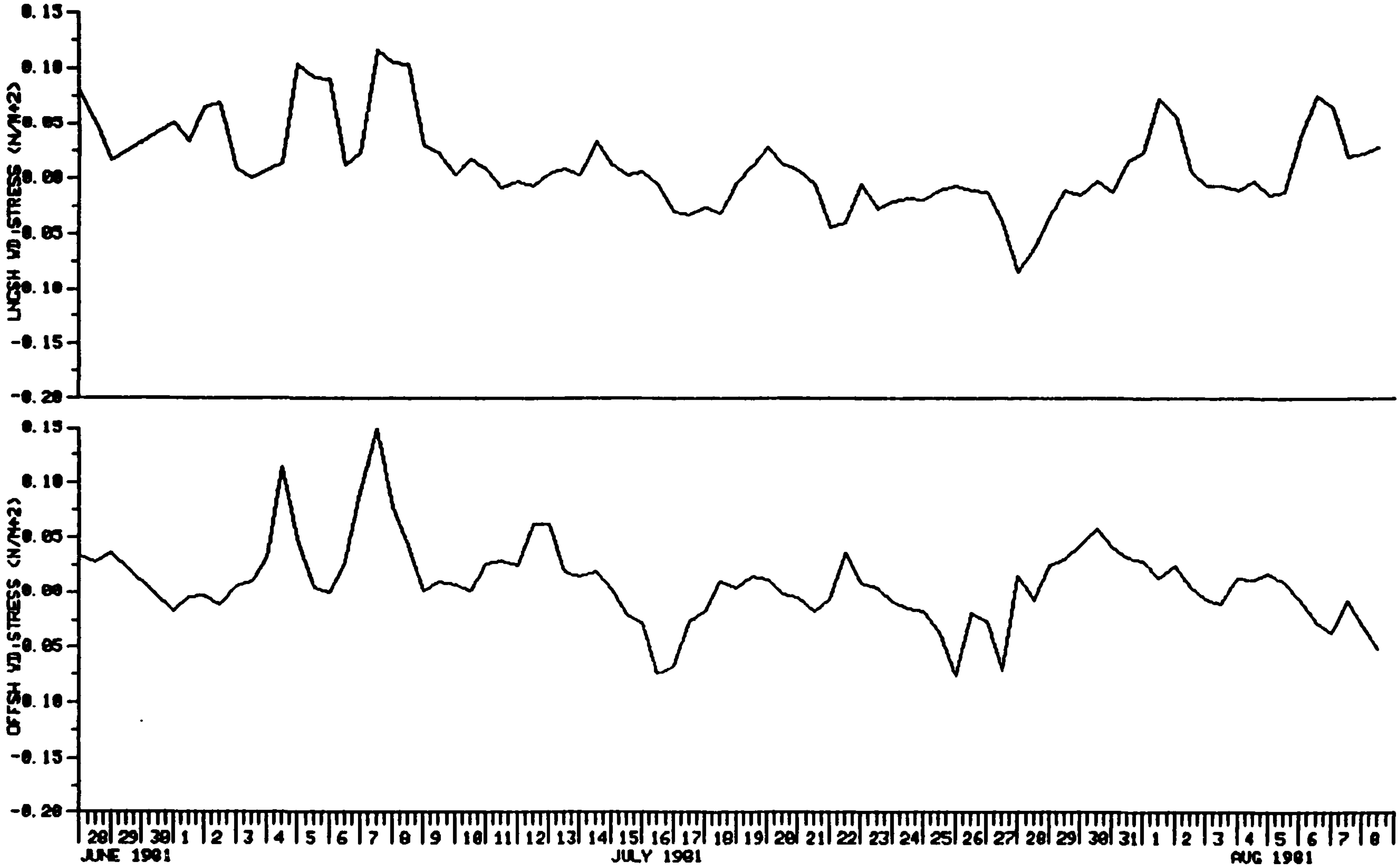
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.5 N 153.0 W AND 70.0 N 165.0 W FILTERED A_2^3



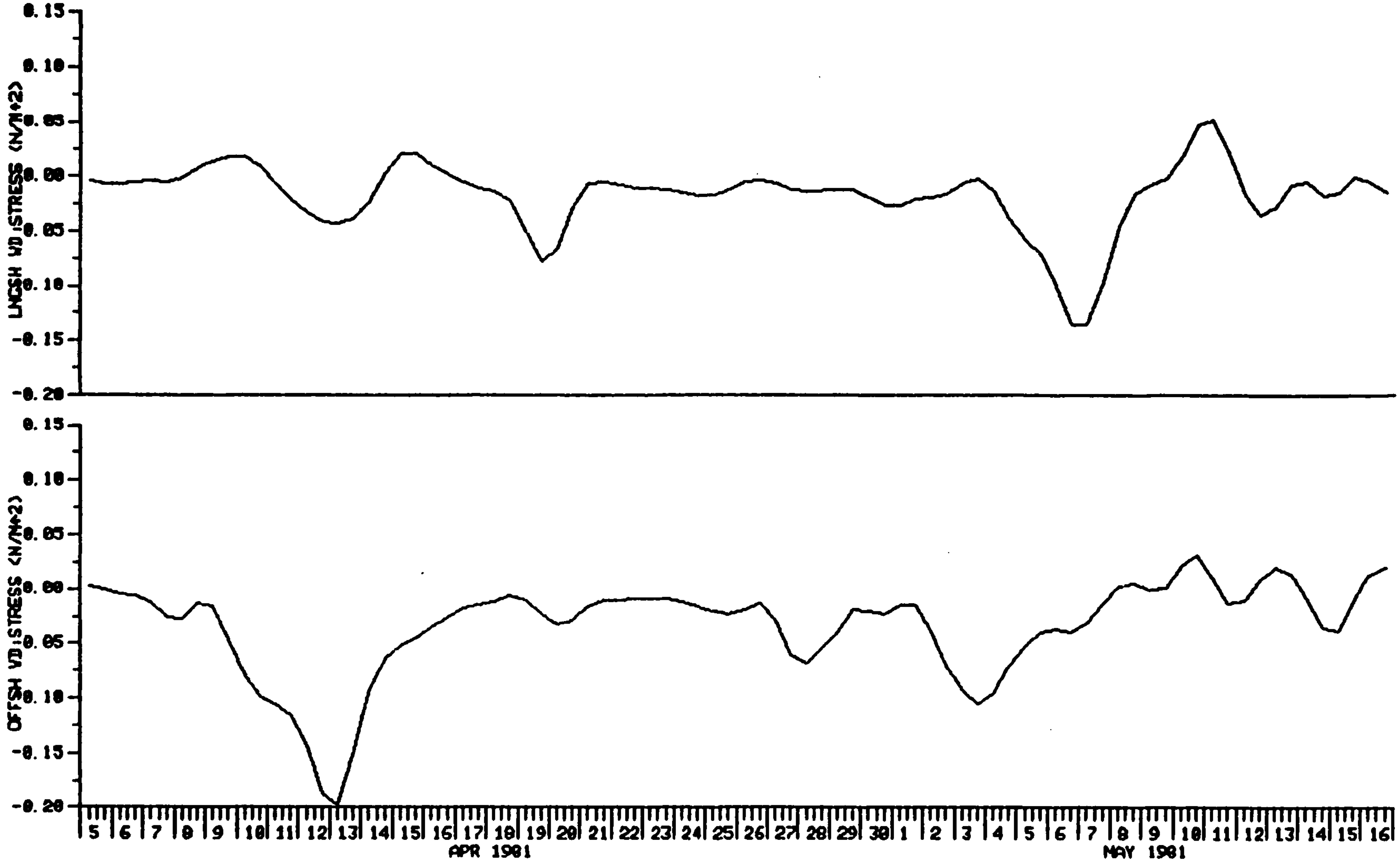
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.5 N 153.0 W AND 70.0 N 165.0 W FILTERED A_2^3



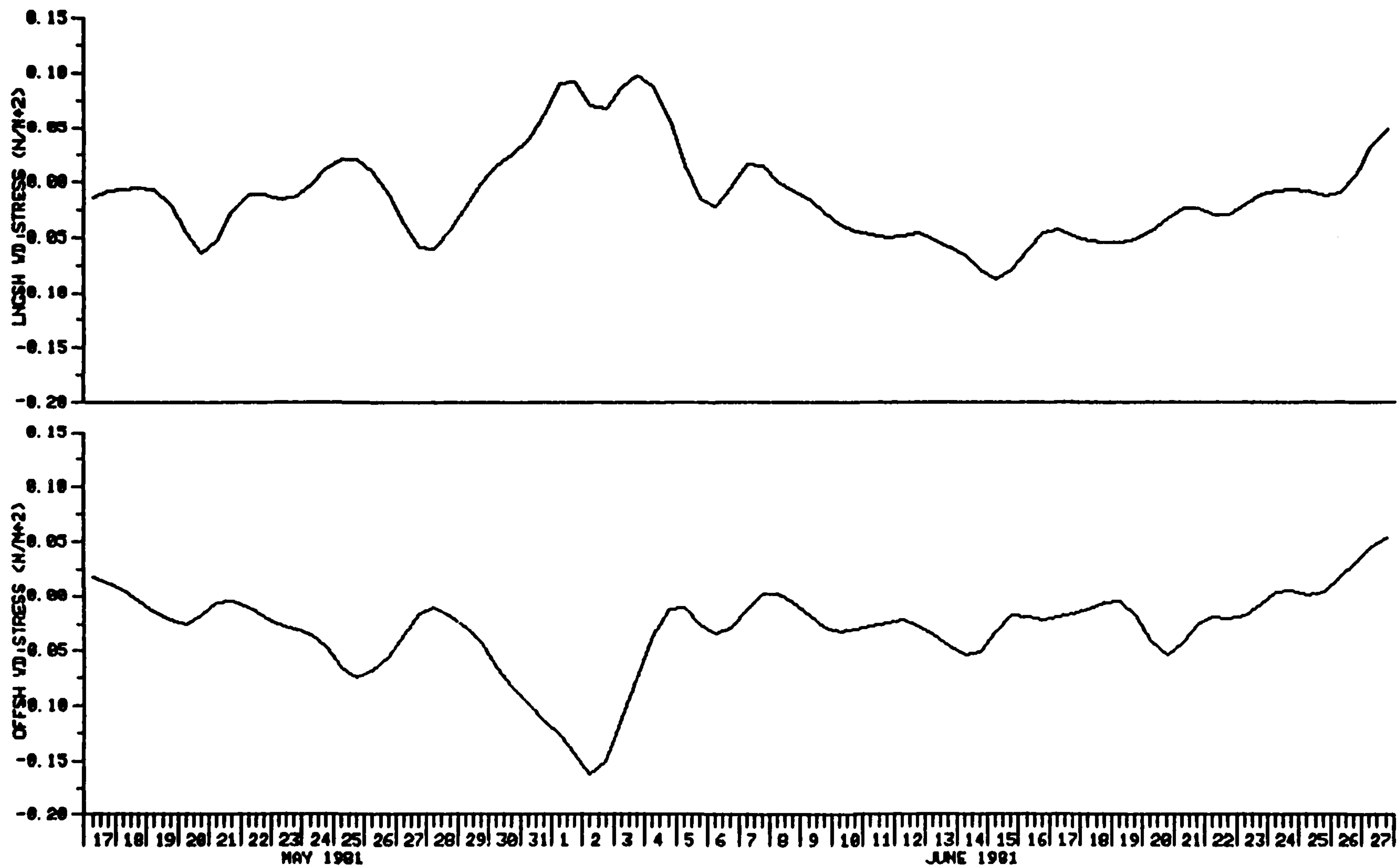
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.0 N 146.0 W AND 70.0 N 165.0 W FILTERED A_2^3



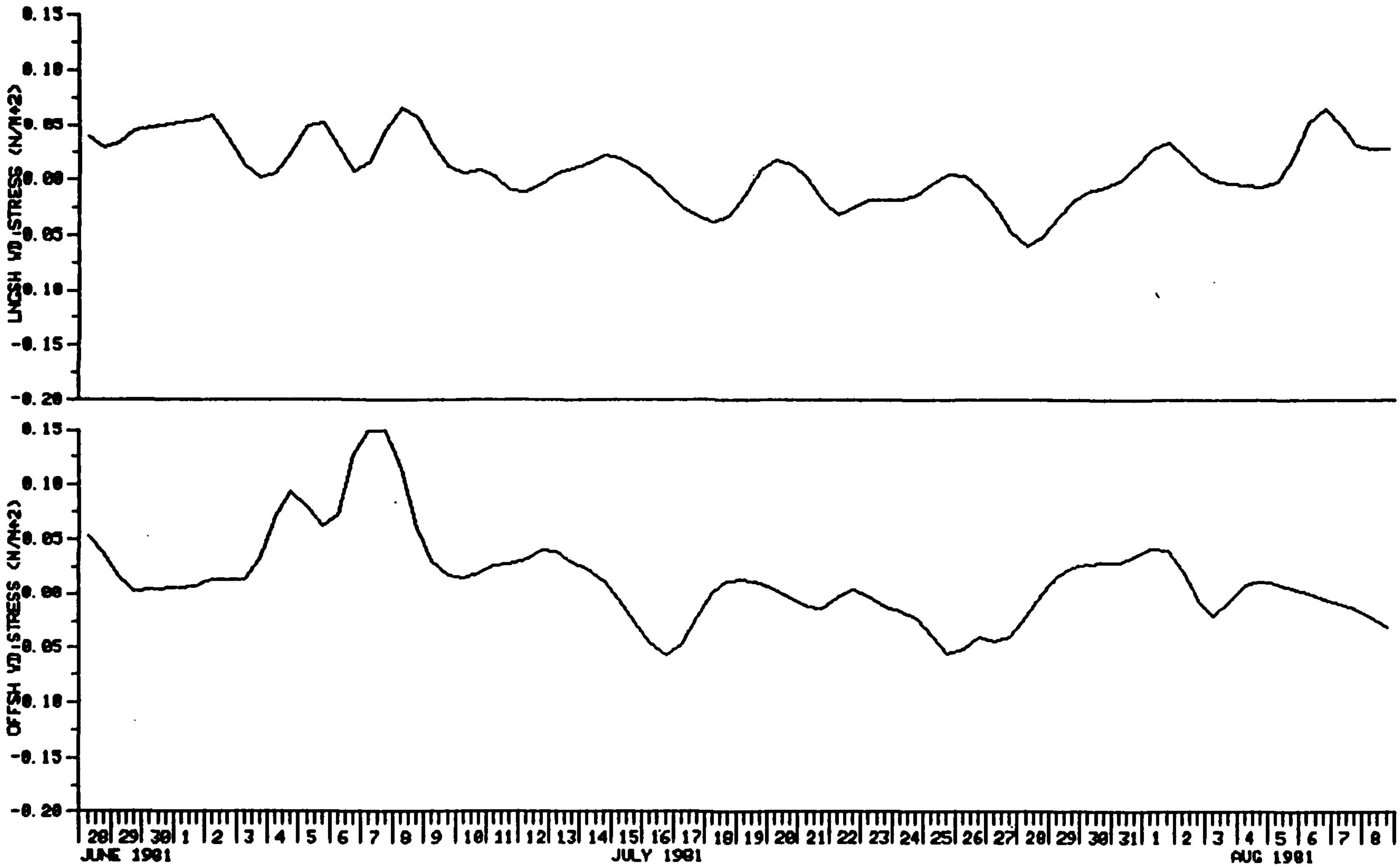
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.0 N 146.0 W AND 70.0 N 165.0 W FILTERED A_1^3



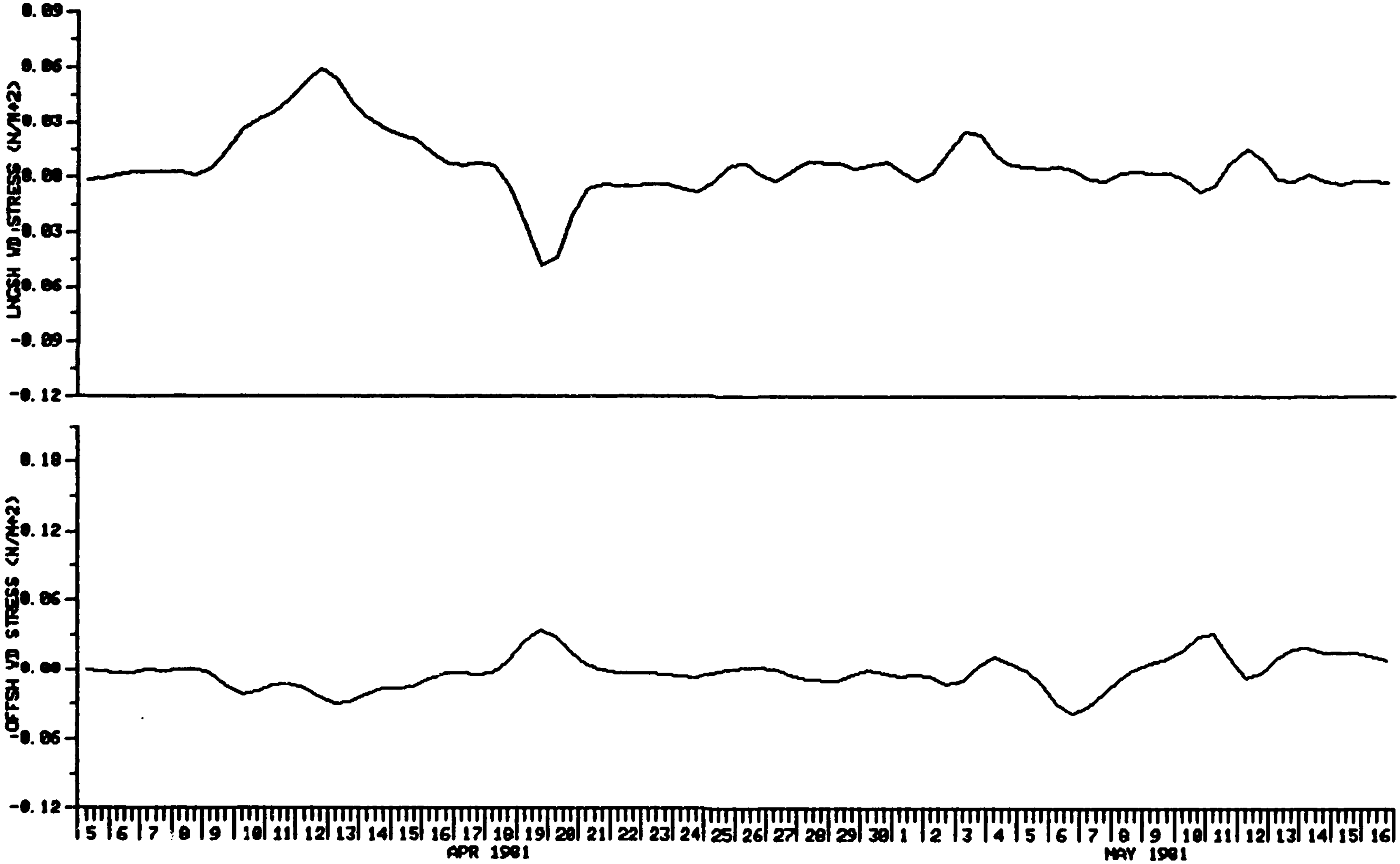
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.0 N 146.0 W AND 70.0 N 165.0 W FILTERED A_2^3



USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.0 N 146.0 W AND 71.5 N 153.0 W FILTERED A_2^3



AD-A145 197 ANALYSIS AND INTERPRETATION OF CURRENT MEASUREMENTS FROM THE BEAUFORT SEA(U) DOBROCKY SEATECH LTD SIDNEY (BRITISH COLUMBIA) P GREISMAN ET AL. APR 84 6/6

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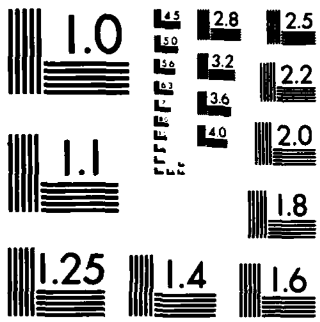

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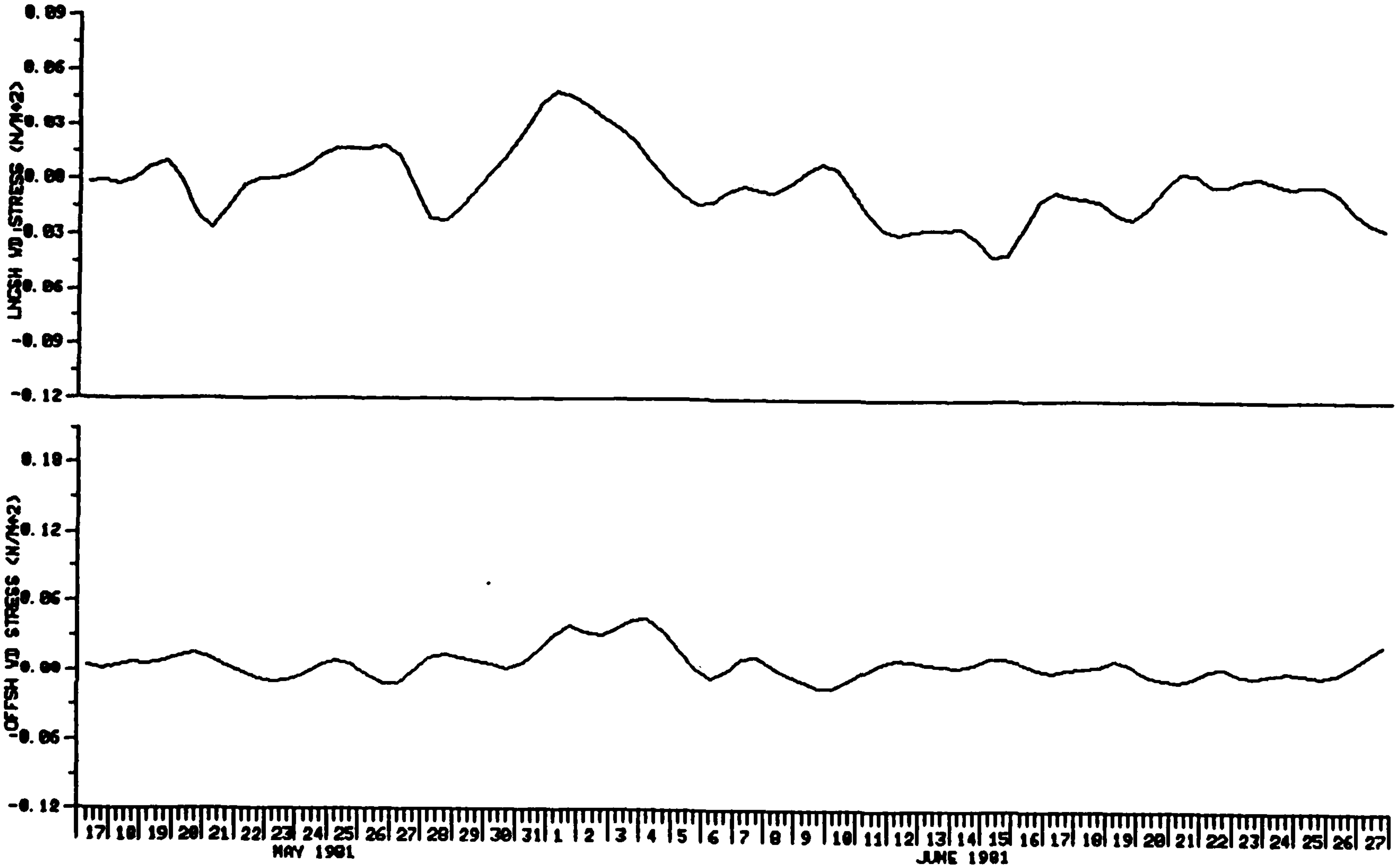
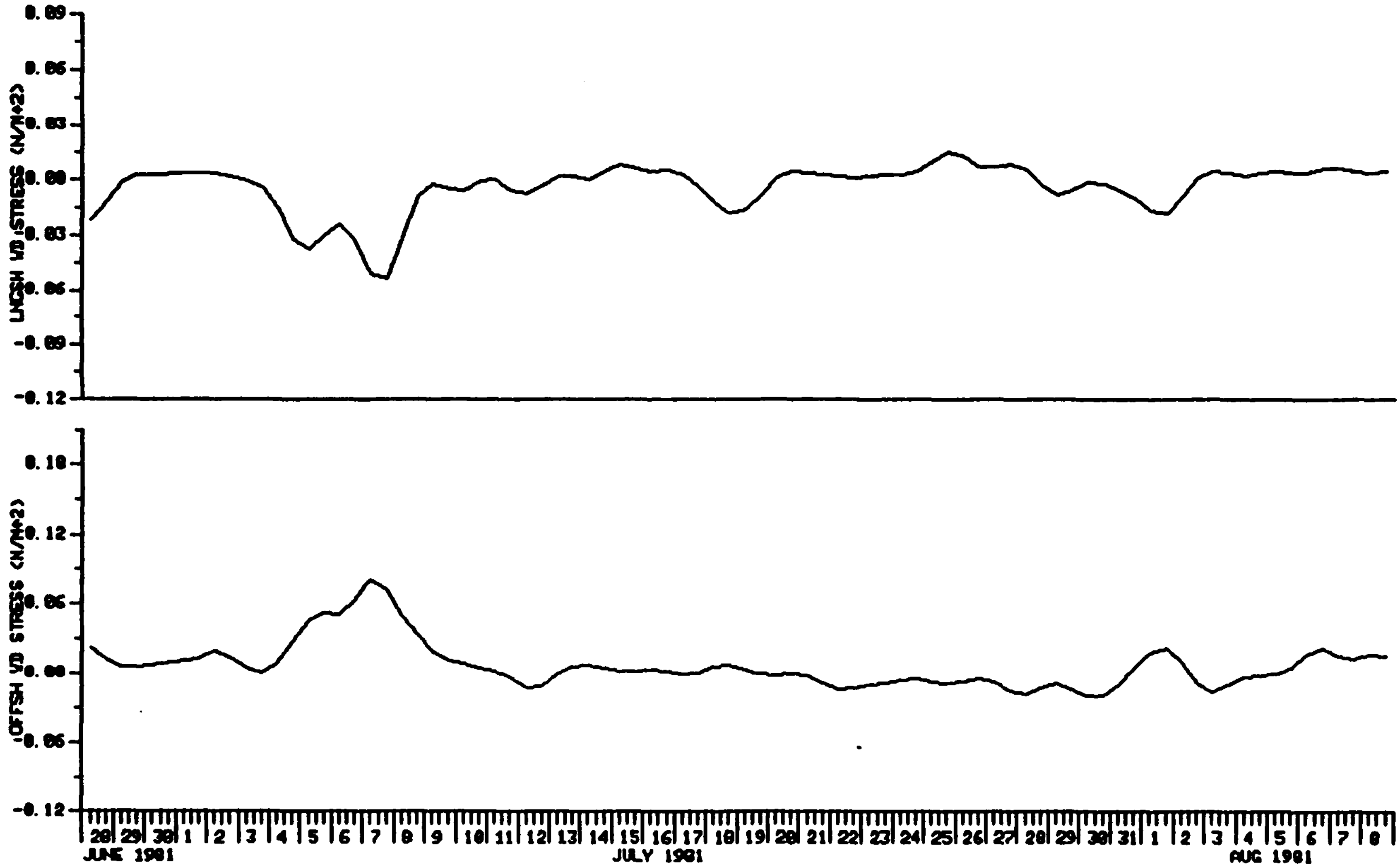
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.0 N 146.0 W AND 71.5 N 153.0 W FILTERED A_2^3



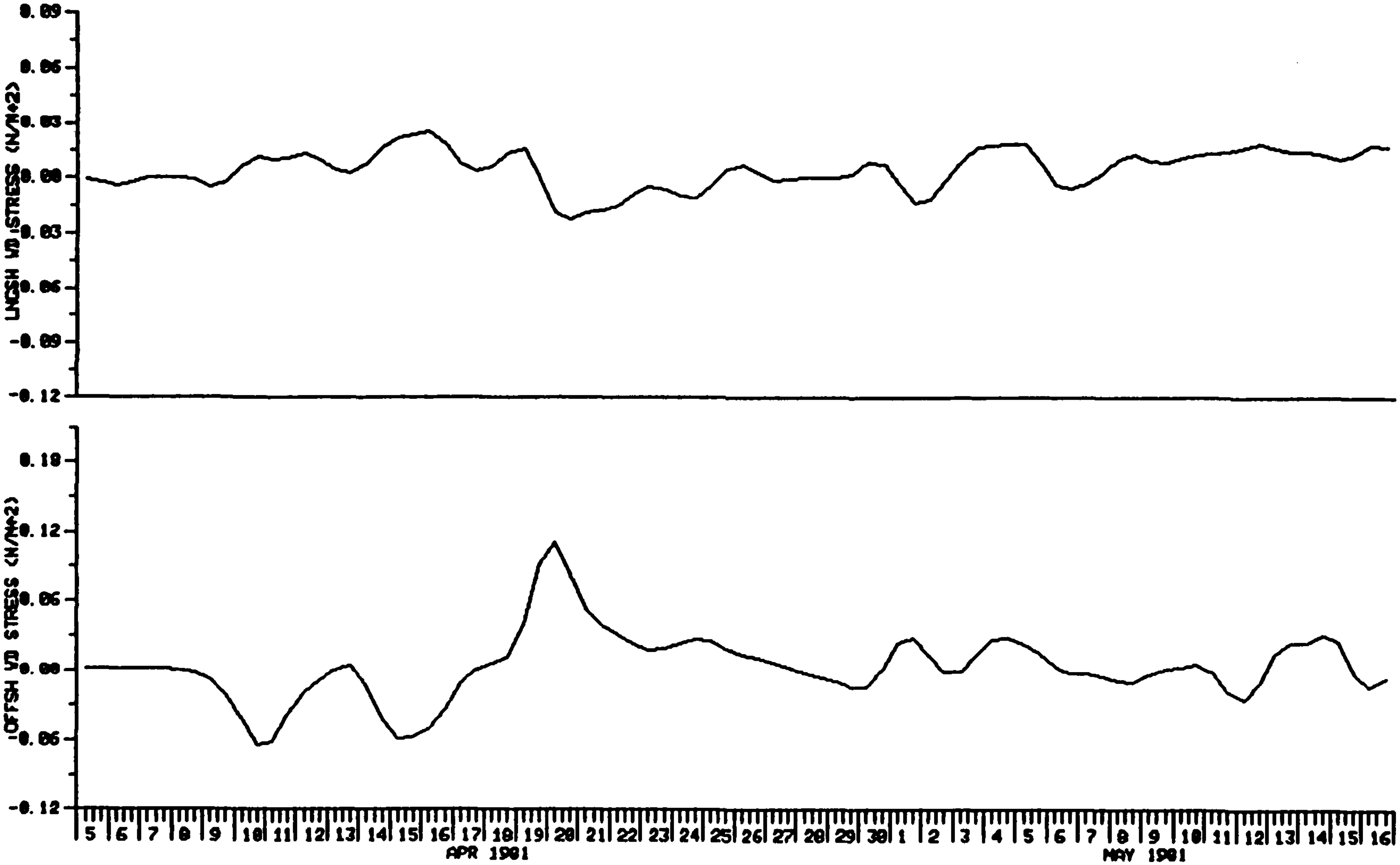
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 71.0 N 146.0 W AND 71.5 N 153.0 W FILTERED A_2^3



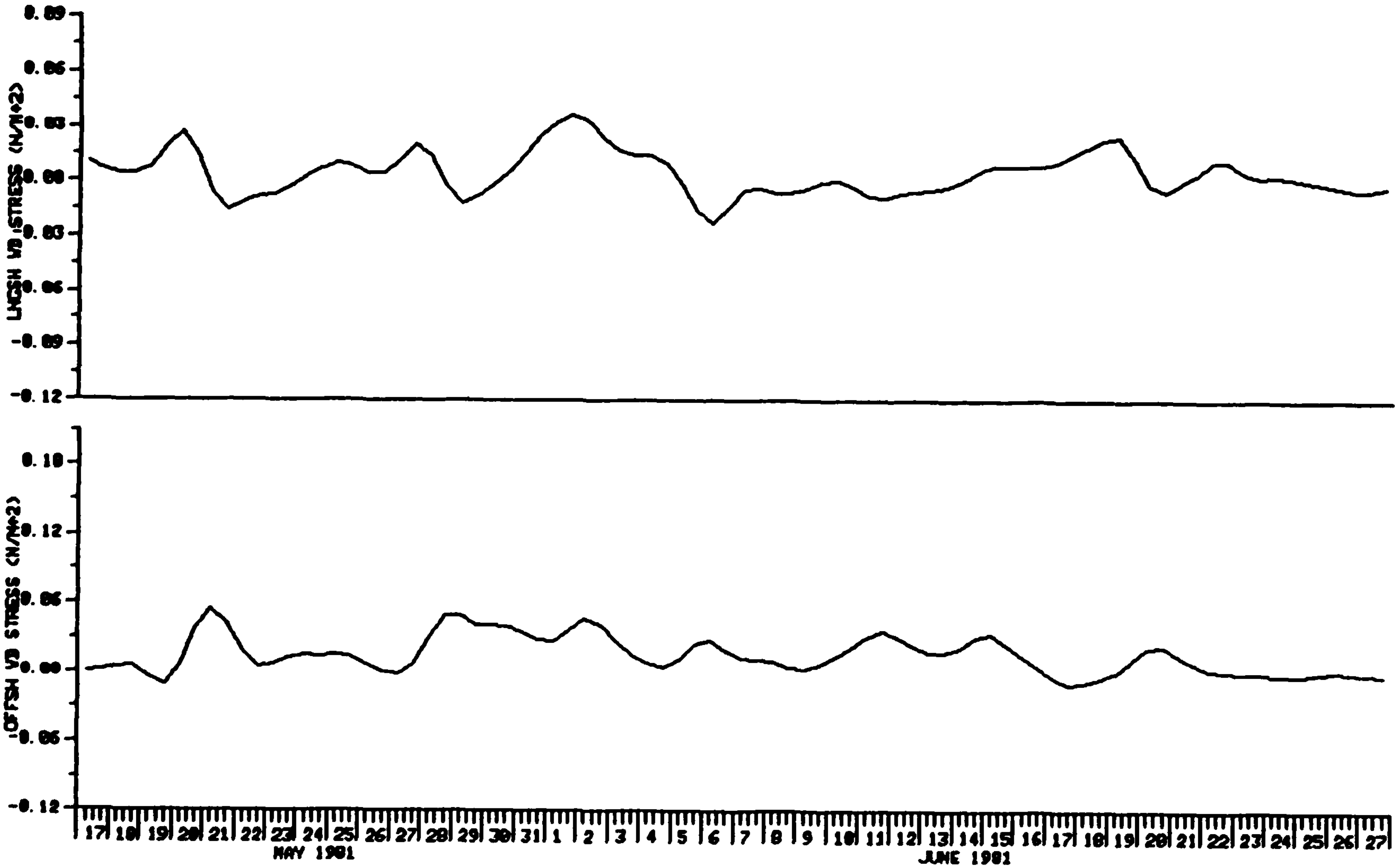
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 70.5 N 139.0 W AND 71.0 N 146.0 W FILTERED A_2^3



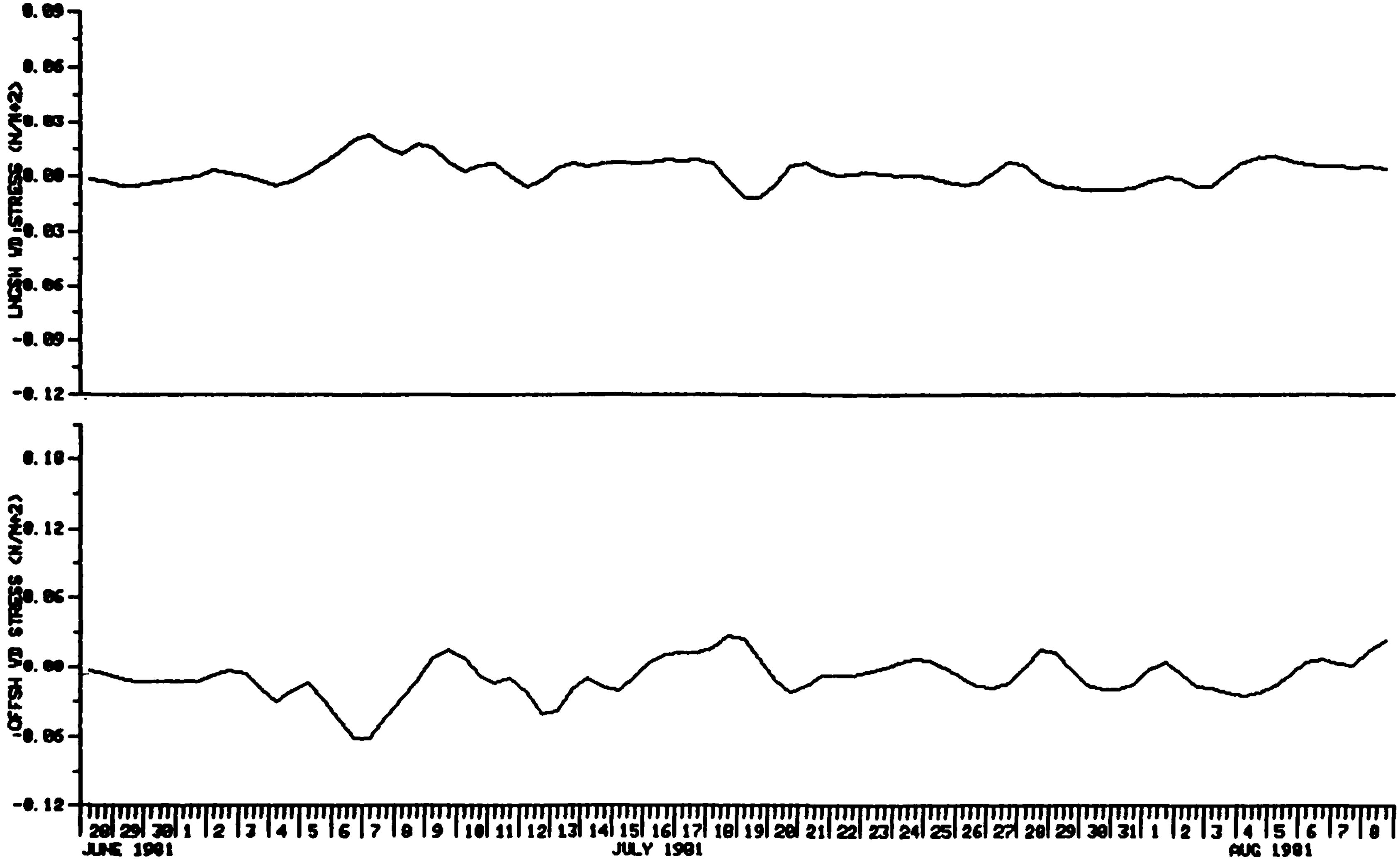
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 70.5 N 139.0 W AND 71.0 N 146.0 W FILTERED A_2^3



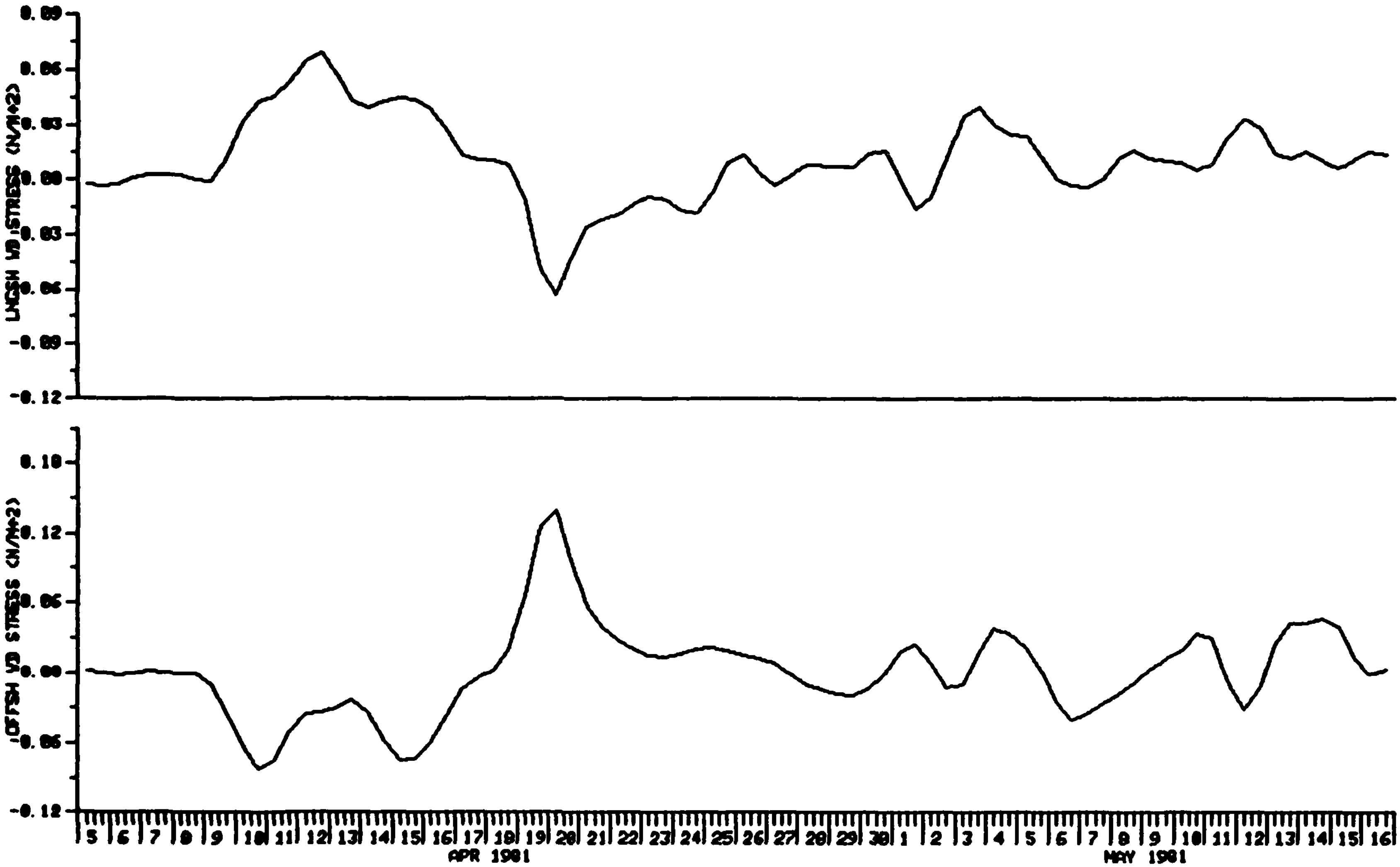
USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 70.5 N 139.0 W AND 71.0 N 146.0 W FILTERED A_2^3



USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 70.5 N 139.0 W AND 71.5 N 153.0 W FILTERED A_2^3



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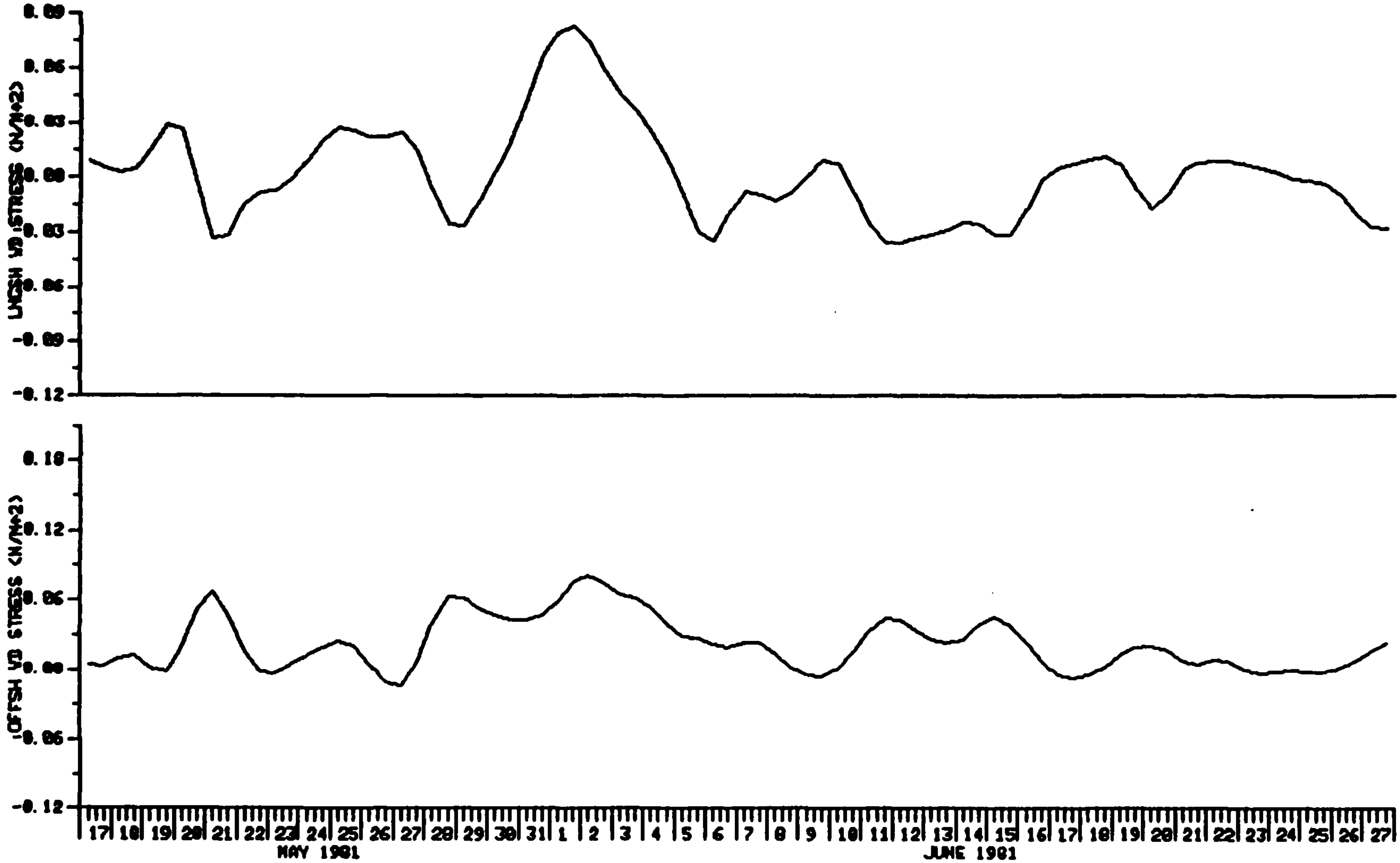
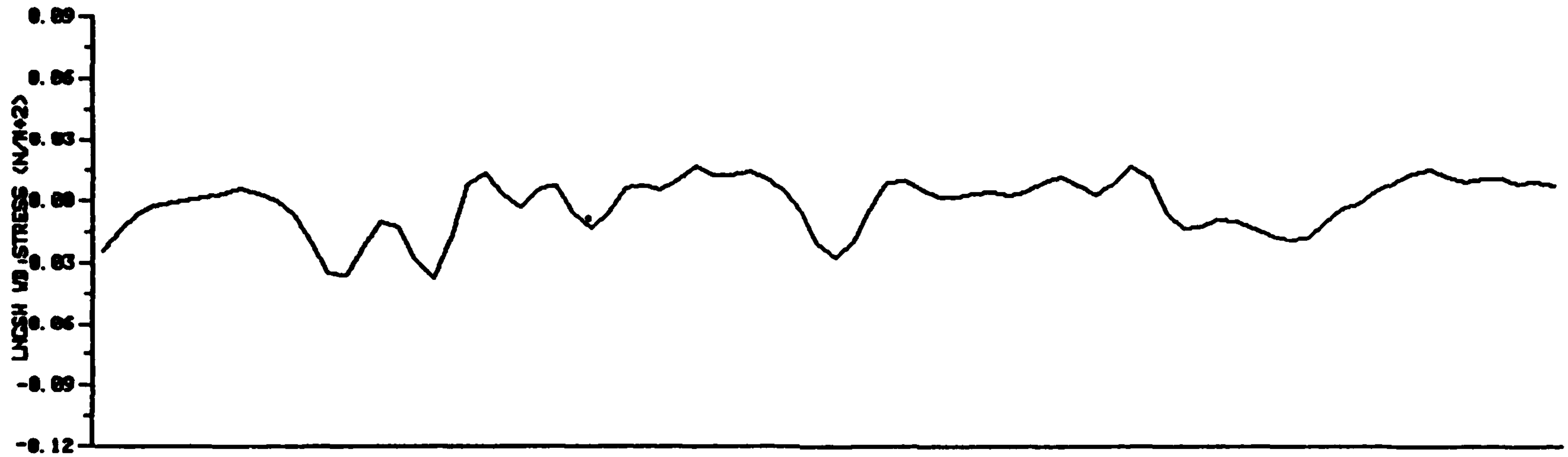
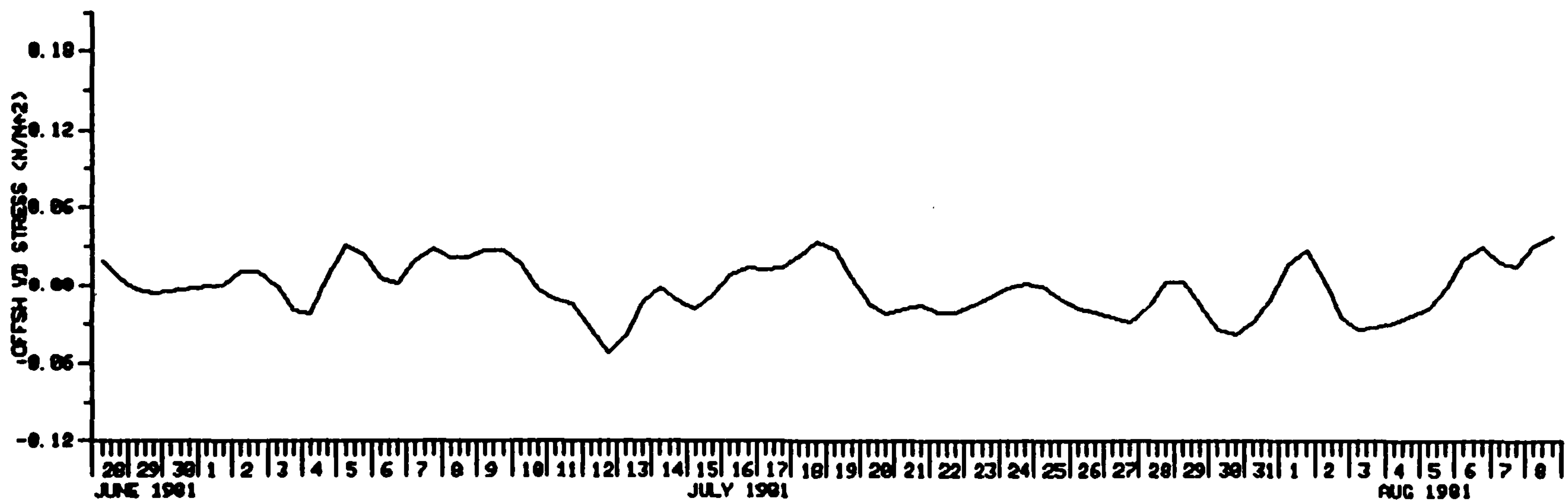
DIFFERENCE BETWEEN LOCATIONS 70.5 N 139.0 W AND 71.5 N 153.0 W FILTERED A_2^3



USCG BEAUFORT SEA STUDY

DIFFERENCE BETWEEN LOCATIONS 70.5 N 139.0 W AND 71.5 N 153.0 W FILTERED A_2^3



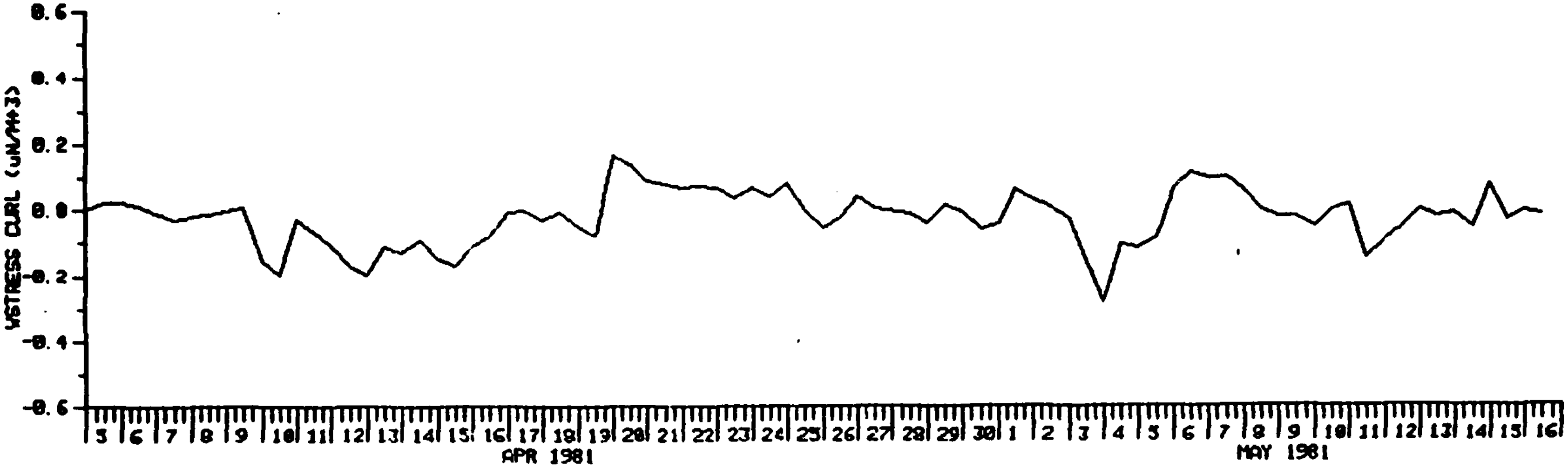


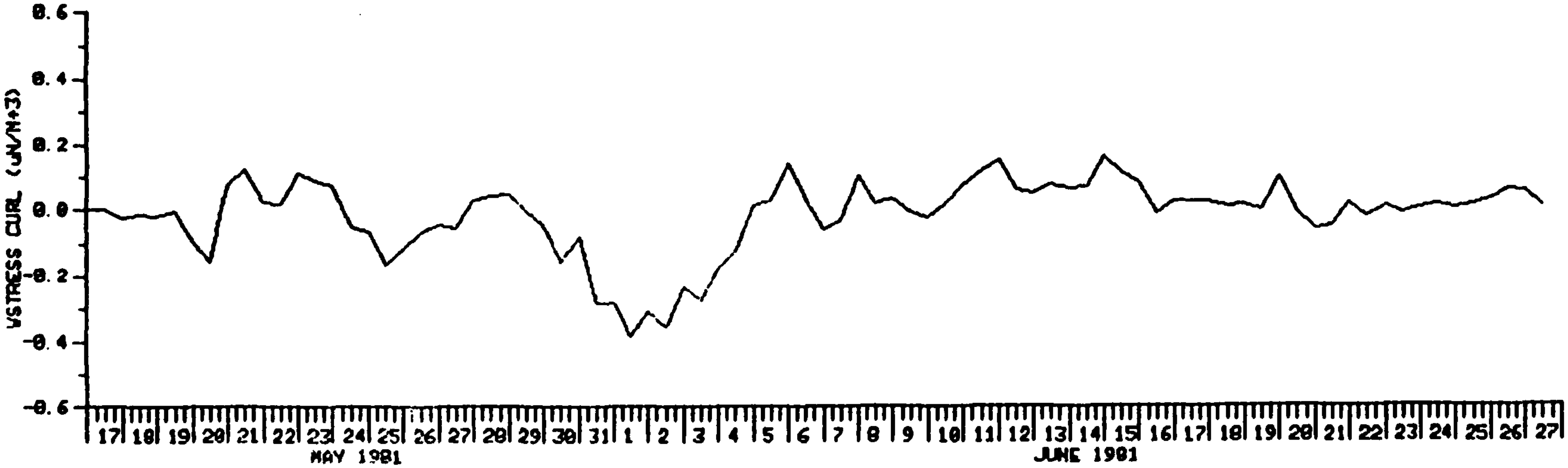
DATA APPENDIX 16

Time Series Plots of the Curl of the Wind Stress at Two Locations

USCG BEAUFORT SEA STUDY

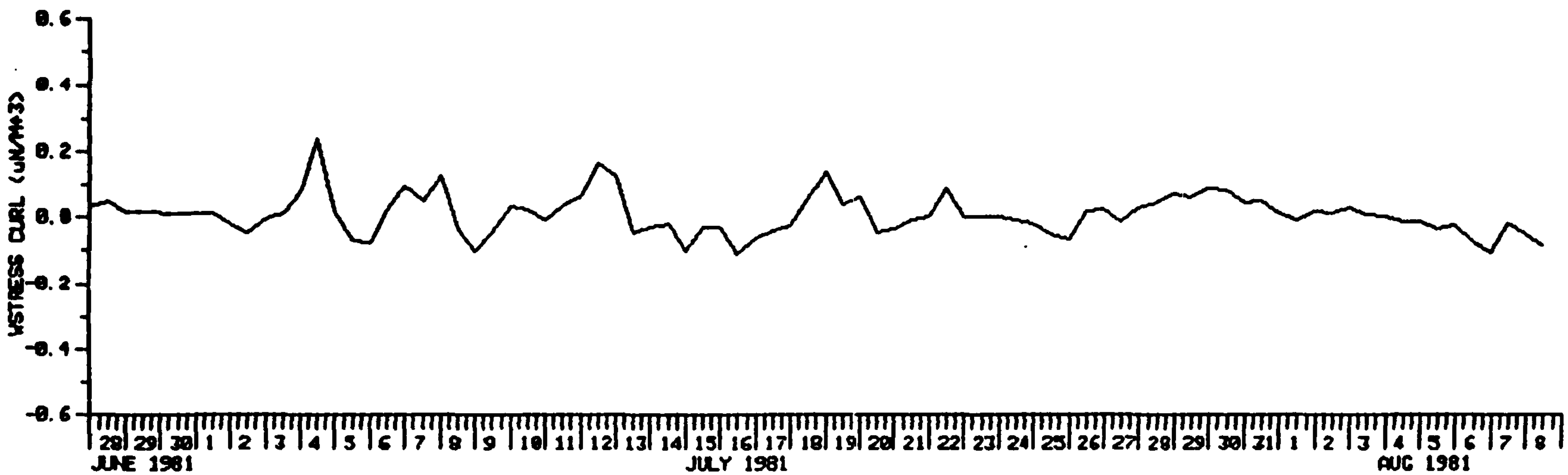
71.0 N 146.0 W





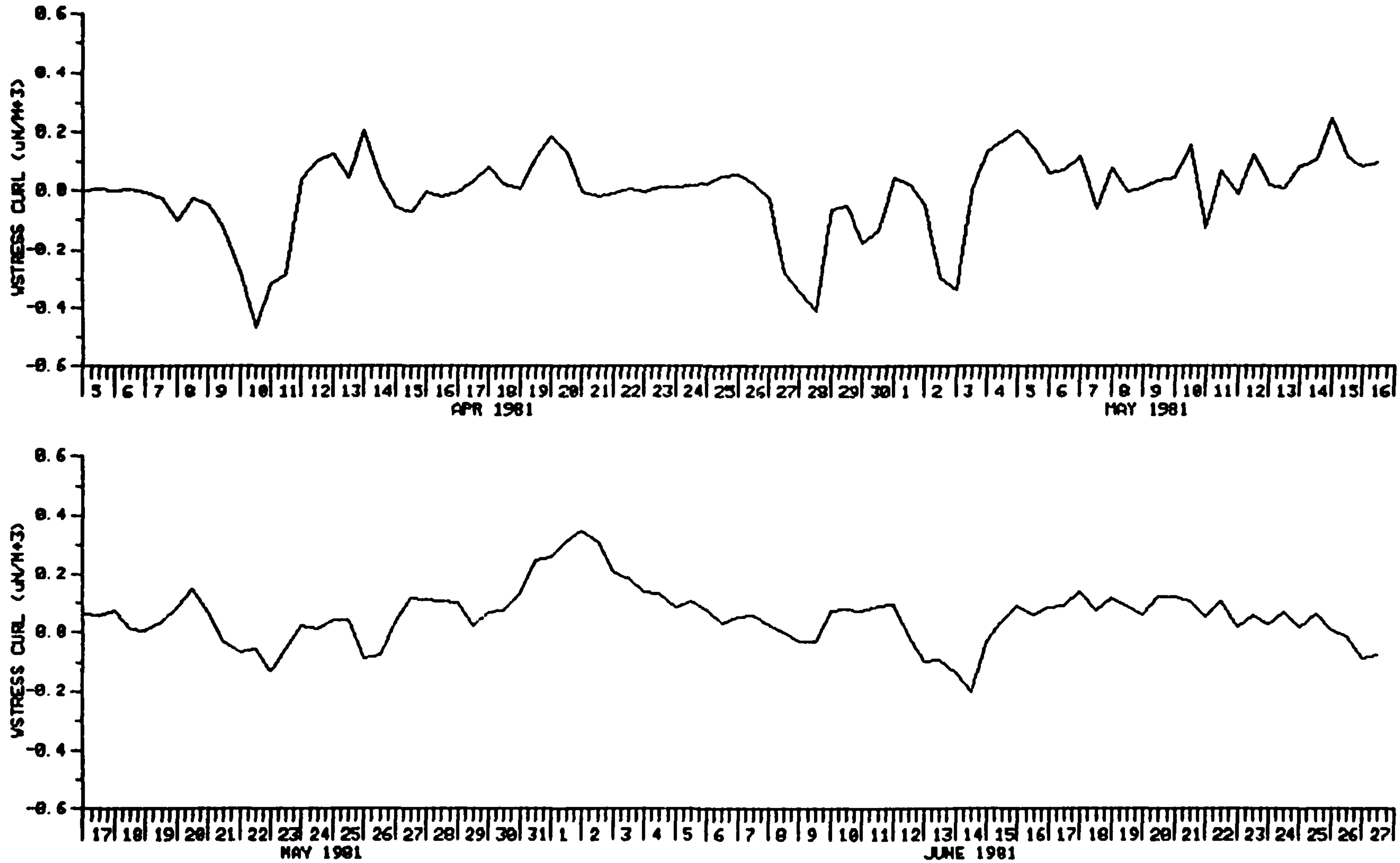
USCG BEAUFORT SEA STUDY

71.0 N 146.0 W



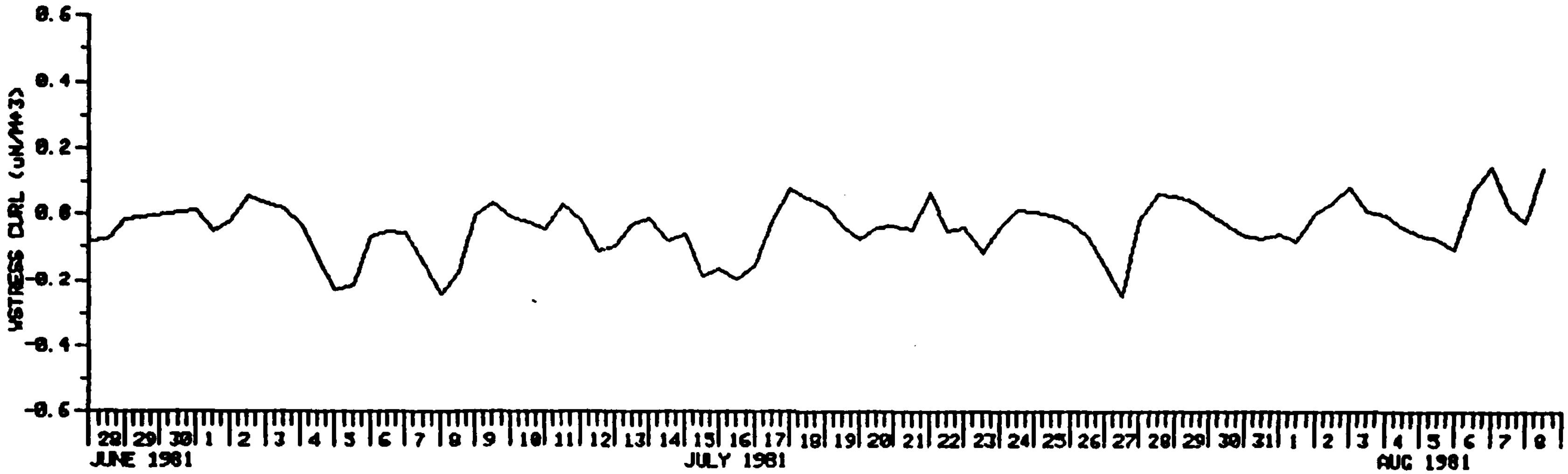
USCG BEAUFORT SEA STUDY

71.0 N 167.0 W



USCG BEAUFORT SEA STUDY

71.0 N 167.0 W



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